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Petroleum Supply Monthly



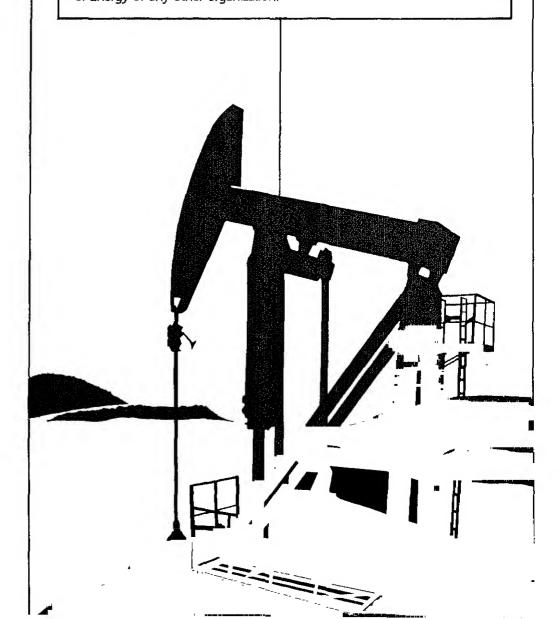
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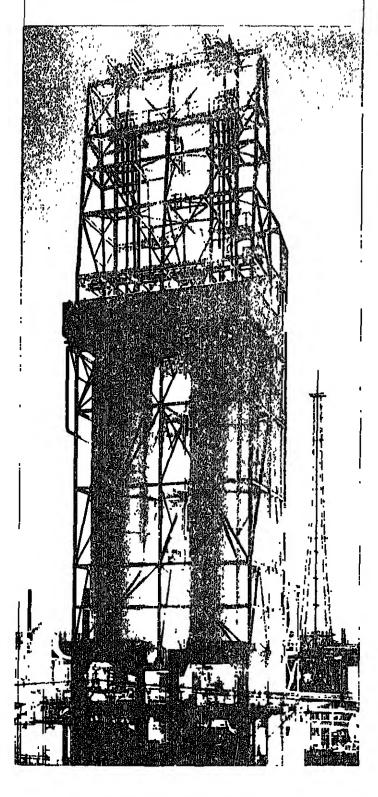
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Contents

This Month in the PSM

This issue of the Petroleum Supply Monthly features an article concerning petroleum industry trends and outlook. U.S. Petroleum Refinery Trends and Outlook can be found on page 5.



Petroleum Focus	Page
Petroleum Supply Summary	3 5
Summary Statistics—April 1983	
Crude Oil and Petroleum Products Overview Crude Oil Supply and Disposition Finished Motor Gasoline Supply and Disposition Distiliate Fuel Oil Supply and Disposition Residual Fuel Oil Supply and Disposition Liquefled Petroleum Gases Supply and Disposition Other Petroleum Products Supply and Disposition	10 14 16 18 20 22
Imports of Crude OII and Petroleum Products from OPEC Sources	25 26 28
Detailed Statistics—April 1983	
National Statistics 1. U.S. Petroleum Balance	31 32 33 34
Supply and Disposition of Crude Oil and Petro- leum Products by PAD Districts 6. PAD District II. 7. PAD District III. 8. PAD District III. 9. PAD District IV. 10. PAD District V. Production of Crude Oil and Lease Condensate 11. Production by PAD District and State,	36 37 38 39 40
February 1983 Natural Gas Processing 12. Plant Production of Petroleum Products by PAD Districts	41
Refinery Operations by PAD District 13. Refinery Input of Crude OII and Petroleum Products. 14. Refinery Production of Petroleum Products. 15. Percent Refinery Yield of Petroleum Products.	43 44 45
	70

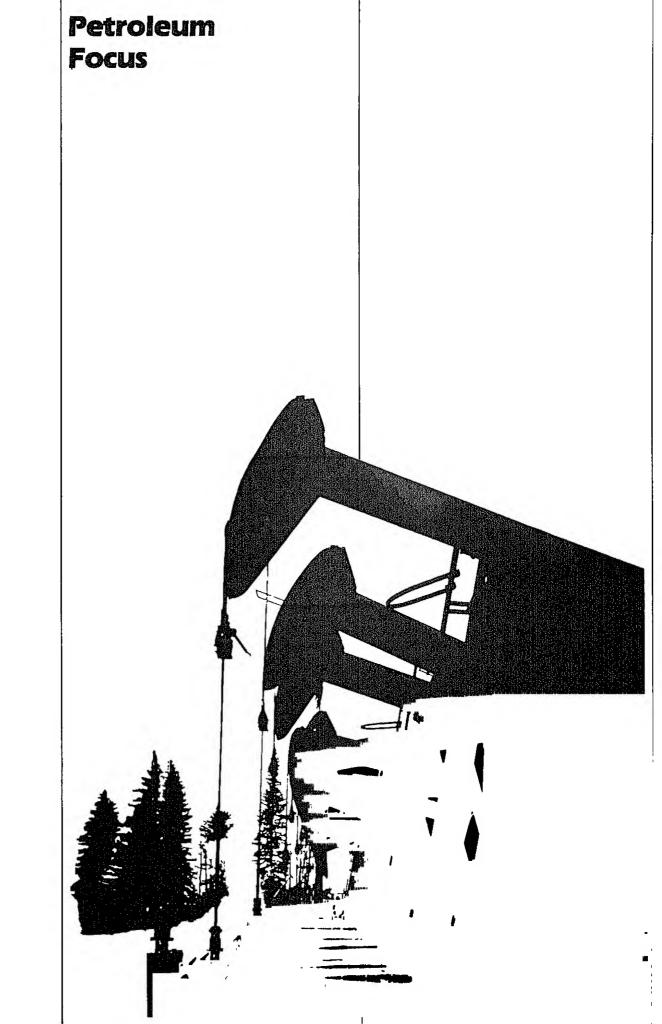
Contents (Continued)

	Page	
Imports and Exports of Crude Oil and Petro-		Figures
leum Products 16. Imports by PAD District	46 47 51 52	Petroleum Overview Petroleum Products Supplied Crude Oil Supply and Disposition Crude Oil Ending Stocks
Stocks 20. Stocks of Crude Oll and Petroleum Products by PAD District	54	Motor Gasoline Supply and Disposition
Transportation of Crude Oil and Petroleum Products Between PAD Districts 21. Movements by Pipeline, Tanker and Barge	59 60 60	Residual Fuel OII Ending Stocks
24. Net Movements by Pipeline, Tanker, and Barge	61	
Heavy Fuel Oils by Sulfur Content 25. Production of Residual Fuel Oil 26. Stocks of Residual Fuel Oil 27. Movements by Tanker and Barge 28. Imports of Residual Fuel Oil by Country of Origin 29. Imports of Residual Fuel Oil by State of Entry	63	
Glossary		
Definitions of Petroleum Products and Other Terms	G1 G7	
Explanatory Notes		
1. Data Collection Methodology 1.1 Weekly Petroleum Supply Reporting System (WPSRS) 1.2 Monthly Petroleum Supply Reporting System (MPSRS) 1.3 Census Import (IM-145) and Export (EM-522 and EM 594) Data 2. Supply 3. Domestic Crude Oil Production 4. Disposition 5. Stocks 6. Average Stock Levels 7. Movements 8. Preliminary Monthly Statistics 9. Notes on Tables	EN1 EN2 EN4 EN5 EN6 EN6 EN6 EN7 EN7	
Maps		
PAD Districts Bureau of Mines Refinery Districts District Map, Oil and Gas Division, Raliroad	G8 G8	

Page

27

Commission of Texas.....





Petroleum Supply Summary

		May		C	umulative Jan Through Ma	
Average Volume for Period	1000	4000	%	4500	4000	%
(Million Barrels Per Day)	1983	1982	Change	1983	1982	Change
Total Product Supplied	14.7	14,8	- 0.7	14.9	15.6	- 4.7
Motor Gasoline	6.7	6.7	1.1	6.4	6.4	- 0.2
Distiliate Fuel Oil	2.3	2.4	4.3	2.7	3.0	- 9.2
Residual Fuel Oil	1.3	1.6	- 14.0	1.5	1.9	23.8
Crude Inputs to Refineries Crude Oil and Natural Gas	11.9	11.8	0.5	11.2	11.5	- 2.6
Liquids Production	10.2	10.2	0.04	10.2	10.2	0.2
Net imports ¹	4.2	4.0	5.4	3.4	3.9	- 11,1
Net Crude Oil Imports ²	3.1	2.8	8.3	2.5	2.7	- 8.5
SPR Imports	0.3	0.2	35.8	0.2	0.2	20.9
Net Product Imports	8.0	0.9	- 10.3	8.0	1.0	- 23.5
Crude Oil Stock Withdrawal ²	0.20	0.22	_	- 0.06	0.13	_
Product Stock Withdrawal	- 0.31	- 0.03	-	0.74	0.99	-
Stocks at End of Period (Million Barrels)						
Crude Oli²	359	348	NM			
Motor Gasoline ³	220	215	NM			
Distillate Fuel Oll	107	114	NM			
Residual Fuel Oil	49	59	NM			
Total Product	702	740	NM			
SPR	327	261	NM			
Total	1,388	1,349	NM			

^{&#}x27;Gross Imports of crude oil including Strategic Petroleum Reserve (SPR) and petroleum products less exports of crude oil and petroleum products.

Note: Percent changes are based on unrounded values. May 1983 data are estimates based on weekly data, except for export and Natural Gas Liquids Production estimates which are April 1983 monthly values. Totals may not be equal to sum of components due to Independent rounding.

Source: Energy Information Administration, Petroleum Supply Monthly, June 1983.

²Excluding SPR.

including blending components.

NM = Not meaningful due to new stock basis.

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U.S. Petroleum Refinery Trends and Outlook

Substantial and significant changes have occurred in the U.S. petroleum refining industry during recent years. By January 1, 1983, refiners had closed over onefifth of the record high 324 refineries operable on January 1, 1981, and reduced crude oil distillation capacity by 1.8 million barrels per calendar day (MMB/CD) (see Table 1). Over the same 2-year period, refinery output mix shifted from heavier products (such as residual fuel oil) toward lighter products (such as gasoline), while crude oil inputs to refinerles shifted in the opposite direction, toward a lower gravity and a higher sulfur content. This article discusses the principal factors associated with these changes and the near term outlook for petroleum refining.

Petroleum Refining Capacity

Crude oil distillation capacity as of January 1 increased each year beginning in 1966 to a record high of 18.6 MMB/CD in 1981 and declined in 1982 and 1983. The recently completed annual survey of the U.S. petroleum refining industry shows that crude oil distillation capacity of operable refineries on January 1, 1983, totaled 16.9 MMB/CD, 1.0 MMB/CD below the comparable January 1, 1982, level, and 1.8 MMB/CD below the record January 1, 1981, level. Of the January 1, 1983, total operable crude oil distillation capacity, 1.9 MMB/CD was Idle. Most of this idle capacity (1,1 MMB/CD) was at facilities that were partially in operation. The remainder (0.8 MMB/CD) was at 25 refineries that were totally idle, but capable of being restarted within 30 days or under repairs that could be completed within 90 days.1

Trends in crude oil distillation capacity and the number of operable refinerles were affected by reduced demand for petroleum products ("demand" is identified in EIA publications as "products supplied"), crude oil pricing shocks initiated by the Organization of Petroleum Exporting Countries2 (OPEC), and changing U.S. regulations. Following the 1973-1974 embargo, Imported crude oil average prices to U.S. refiners increased from \$4.08 per barrel In 1973 to a record \$37.05 per barrel in 1981.3 During this period, the Federal Government controlled prices for domestic crude oil and began a Crude OII Entitlements Program that created incentives for the construction of small refineries. These actions reduced some of the impact of the price shocks. Decontrol of domestic oil prices and the end of

NOTE: The statistics which appear in this article were obtained from the 1982 Petroleum Supply Annual (except where noted) and are final. They may conflict with 1982 preliminary data in the Summary Statistics section of this publication which begins on page 10. The Summary Statistics section will be updated with final 1982 data in next month's issue.

the entitiement program occurred early in 1981. Energy conservation, automotive fuel efficiency improvements, low levels of industrial activity, and high prices contributed to the lowest level of petroleum demand in over a decade, 15.3 million barrels per day (MMBD) for 1982.4 In this environment, refiners elected to shut down some refinerles and reduce total crude oil distillation capacity (see Table 1).

There were 258 operable refineries on January 1, 1983, substantially fewer than the record number operable in 1981 (see Figure 1). Eighty-eight percent of the refineries shut down during 1981 and 1982 had a capacity of 30,000 barrels per calendar day (B/CD) or less, and 54 percent of the shutdowns had a crude oil distillation capacity of 10,000 B/CD, or less. Only four of the shutdown refineries had a capacity greater than 100,000 barrels per days. The largest refinery shutdown was the Dow Chemical U.S.A. refinery in Freeport, Texas, which had a capacity of 190,000 barrels per day and had only been in operation for 1 year. The reduction in the number of smaller refineries was particularly related to the elimination of the Crude Oil Entitlements Program that favored small refiners.

During 1981 and 1982 the 10 largest refiners reduced the number of refinerles they operated from 75 to 65. The shutdowns resulted in a 13-percent reduction in the number of their refineries but only a 9-percent reduction in their crude oil distillation capacity (includ-Ing reductions in capacity for some refinerles that continued operating). These reductions can be compared to total reductions of 21 percent in the number of refineries shut down but only 7 percent of total crude oil distillation capacity.

Petroleum Administration for Defense (PAD) Districts I (East Coast) and II (Midwest) iost respectively 19 and 17 percent of their January 1, 1981 crude oil distillation capacity during 1981 and 1982. PAD District V (West

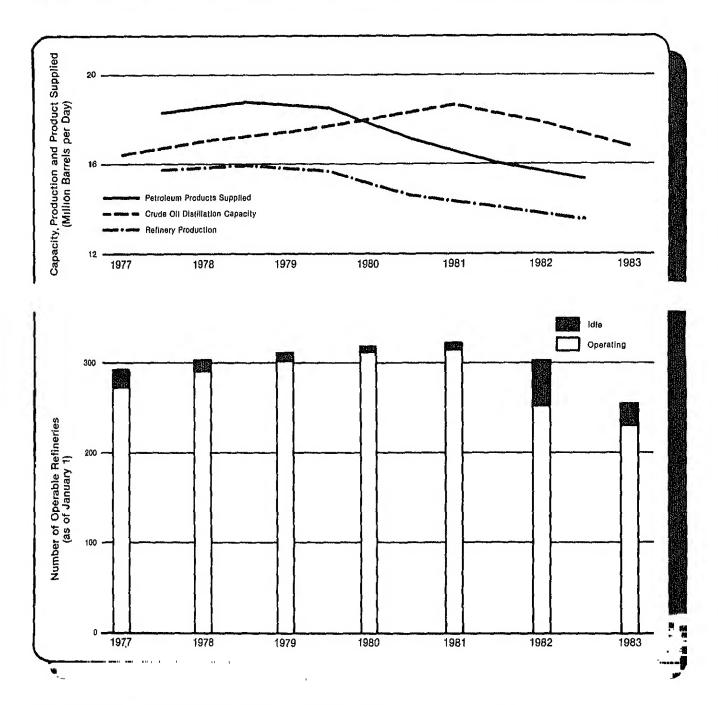
'Crude oil distillation capacity data and information concerning refinery operability as of January 1, 1983, are published in EIA's Petroleum Supply Annual, 1982) DOE/EIA-0340 (82/1) (Washington, D.C., 1983), See Refinery Capacity Table 1 of that publication. Previous years' data are taken from EIA's Petroleum Supply Annual, 1981, Petroleum Refinerles in the United States and U.S. Territories, DOE/EIA-0111 (81) and earlier issues. Prior to 1978, the petroleum refinerles report was published by the U.S. Bureau of Mines.

Algeria, Ecuador, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Vene-

³Energy Information Administration, 1982 Annual Energy Review, DOE/EIA-0384 (82) (Washington, D.C., 1983) Table 41, p.

'Energy Information Administration, Petroleum Supply Monthly, DOE/EIA-0109 (83/06) (Washington, D.C., 1983) p. 10. *Petroleum Supply Annual, 1982, Refinery Capacity Table 10.
*Petroleum Supply Annual, 1982, Refinery Capacity Table 4 and Petroleum Supply Annual, 1981, Refinery Capacity Table 4.

Figure 1. Operable Refineries, Crude Oil Distillation Capacity, Refinery Production and Products Supplied



Note: Number of operable refineries and capacity data are as of January 1. Petroleum product supplied and refinery production are yearly averages.

Source: Energy Information Administration, Petroleum Supply Annual, 1982, and predecessor reports.

Table 1. Refinery Capacities on January 1, 1981, 1982, and 1983

	Operable i	Refineries			ion Capacity Barrels per ar Day)		(Thouse	Charge C and Barrels		Day)	Catalytic
	Total	Oper- ating	Total	Oper- ating	Vacuum Distillation	Thermal Operation		c Cracking (Recycle)		Hydro- cracking	Hydro- treating!
1981	324	315	18,620	18,051	7,033	1,587	5,543	594	4.098	909	8,487
1982	301	254	17,890	16,104	7,197	1,782	5,473	562	3,966	892	8,539
1983	258	233	16,859	14,961	7,180	1,715	5,402	488	3,918	883	8,354

Includes Catalytic Hydrorefining.

Sources: Energy Information Administration, Petroleum Supply Annual, 1981 and 1982, and Petroleum Refineries in the United States and U.S. Territories, January 1, 1981.

Coast) and PAD District III (Gulf Coast) losses were the smallest, 2 percent and 6 percent, respectively. PAD District IV (Rocky Mountains) and the U.S. total declines were between 9 and 10 percent. In terms of actual capacity, the largest loss was in PAD District II, 0.7 MMB/CD. Substantial growths in their portions of the U.S. total crude oil distillation capacity occurred in PAD Districts III and V.

Changes in Product Outputs

U.S. refinery production equaled 88 percent of domestic petroleum demand in 1982, compared to 85 percent in 1978, despite the reduction in crude oil distillation capacity that has occurred since the beginning of 1981 (see Figure 1). The remaining domestic petroleum demand was met by net imports, finished products from natural gas plants, and product stocks drawdowns.

Although the demand for petroleum products declined from a record 18.8 MMBD in 1978 to 15.3 MMBD in 1982, the decline was not uniform for all products. There was an appreciable shift in demand toward lighter products and away from heavier products.

In response to these demand shifts, refiners increased the proportion of downstream processing capability that could raise the yields of lighter products while decreasing their total capacity, as discussed earlier. From January 1, 1981, to January 1, 1983, downstream capabillty as a percentage of crude oil distillation capacity Increased nearly 2 percentage points for catalytic cracking and 4 percentage points for catalytic hydrorefining and hydrotreating. The larger growth in catalytic hydrorefining and hydrotreating was to increase the flexibility to process lower gravity and higher sulfur crude oil feedstocks, and the growth in catalytic cracking was to increase yields of lighter products. The percentage increases resulted both from new construction of downstream capacity and the closing of many smaller refineries which had little downstream capacity.

Crude Oil Feedstocks

The sources and quality of crude oil inputs to refinerles have changed significantly in recent years. For more than a decade, crude oil production in the United States has been virtually at capacity and domestic crude has had a lower average price than imported crudes. Thus,

Imports were used principally to fill the gap between domestic crude oil supply and demand. Domestic crude oil accounted for 46 percent of crude oil inputs to refineries in 1978 and 72 percent of crude oil receipts by refineries in 1982.9

With the start up of the Trans Alaskan Pipeline System in 1977, production of crude oil from the North Slope of Alaska could be transported to the Lower-48 States. Crude oil produced from that area has a gravity of about 27° API and a sulfur content of about 1.0 percent (by weight). 1° This gravity is lower and sulfur content higher than the U.S. averages. Thus, as North Slope production increased its share of U.S. crude oil supply, there was movement toward a lower average API gravity and also movement toward a higher average sulfur content, contributing to the need for more complex refining capability. During 1982, North Slope production was about one-fifth of the U.S. total. 11

Because of availability and price differentials between higher gravity, lower sulfur content crude oil and lowergravity, higher sulfur crude oils, it became more profitable in many instances to import more of the lower gravity, higher sulfur crudes.

Information collected recently by EIA indicates that the average sulfur content of crude oil inputs to refineries increased from 0.89 percent in 1981 to 0.91 percent in 1982. Concurrently, the average gravity declined from 33.8° to 33.1° API.12

12EIA Form 87, "Refinery Report."

¹Petroleum Supply Monthly, Summary Statistics and Table 6; and Energy Information Administration, Crude Petroleum, Petroleum Products, and Natural Gas Liquids: 1978, DOE/ EIA-0108/78, (Washington, D.C., 1979) Tables 1 and 2.

^{*}Petroleum Supply Annual, 1982, Refinery Capacity Table 1; and Petroleum Refinerles in the United States and U.S. Territories Table 1.

^{*}Petroleum Supply Annual, 1982, Table 16, and Crude Petroleum, Petroleum Products and Natural Gas Liquids: 1978, Table 15.

¹⁹International Petroleum Encyclopedia, Vol. 12, (Tulsa, OK: The Petroleum Publishing Company, 1979) p. 311.

[&]quot;Energy Information Administration, Monthly Energy Review DOE/EIA-0035/83/05) (Washington, D.C., 1983) p. 34.

Outlook

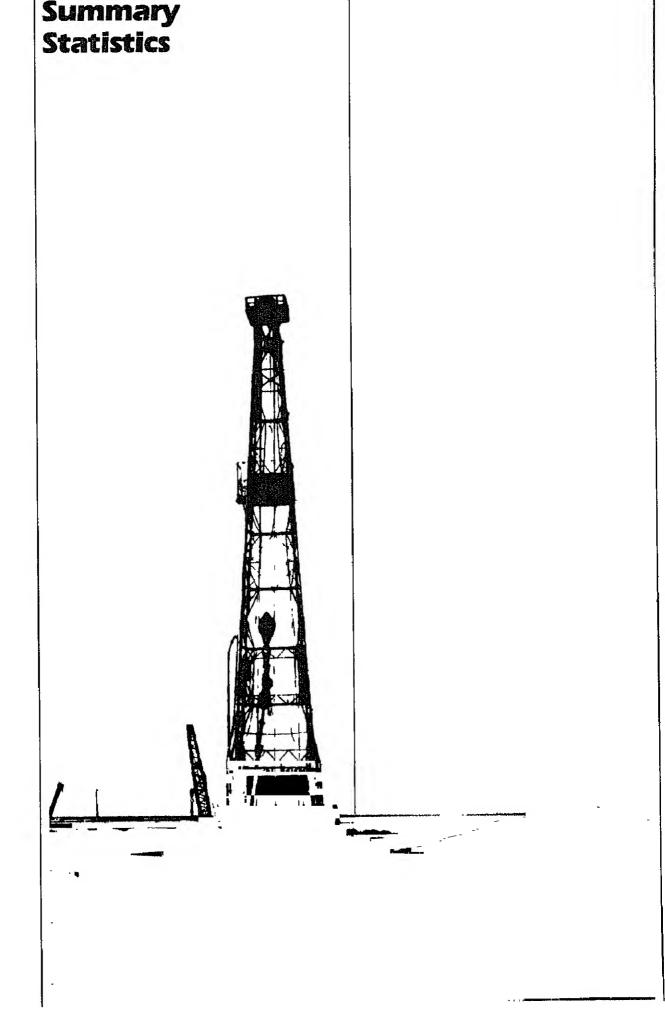
Respondents to the EIA's annual refinery survey for 1983 project that crude oil distillation capacity on January 1, 1984 will be 17.5 million barrels per stream day (MMB/SD),¹³ a net decrease of 0.4 MMB/SD from the January 1, 1983, level. Most of this decrease is expected to result from the planned closing of seven refineries during 1983. Respondents projected net increases of 388 thousand barrels per stream day (MB/SD) in downstream capacity. The largest changes in downstream capability include a decline in vacuum distillation (155 MB/SD) and increases in catalytic hydrotreating (433 MB/SD), and thermal operations (83 MB/SD). The projected increase in catalytic hydrotreating is equal to almost 5 percent of the operable capacity on

January 1, 1983. The addition of this downstream capability will provide the flexibility to process lower gravity, higher sulfur crude oil feedstocks into lighter products.

Although the number of operable refineries is expected to decrease, the shift toward more complex refining facilities begun several years ago is expected to continue. A number of refiners are upgrading downstream processing equipment to enable them to diversify product mixes and increase yields of lighter products.

^{13&}quot;Stream day" denotes an operating day on a refinery unit; "stream day" rates are about 6 percent higher than "calendar day" rates, because "calendar day" rates include downtime, see Glossary, this issue.

[&]quot;Petroleum Supply Annual 1982, Refinery Capacity Table 8.



1973 1974 1975 1976 1977	AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE	Total Domestic4 10,975 10,498 10,045 9,774 9,913 10,328 10,179	9,208 8,774 8,375 8,132 8,245 8,707	Natural Gas Plant Production Thousand Barra 1,738 1,688 1,633 1,603	Crude Oll ⁵ els per Day 11 -62 -17	Petroleum Products -146 -117 -145	Petroleum Products Supplied 17,308 16,653	Ending Stocks ³ Crude Oll ⁵ and Petroleum Products Millions of Barrels 1,008 6 1,074
1974 1975 1976 1977	AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE	10,975 10,498 10,045 9,774 9,913 10,328 10,179	9,208 8,774 8,375 8,132 8,245 8,707	Gas Plant Production Thousand Barr 1,738 1,688 1,633 1,603	OII ⁵ els per Day 11 -62 -17	-146 -117	17,308 16,653	Oll ⁵ and Petroleum Products Millions of Barrels
1974 1975 1976 1977	AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE	10,498 10,045 9,774 9,913 10,328 10,179	9,208 8,774 8,375 8,132 8,245 8,707	1,738 1,688 1,633 1,603	11 -62 -17	-146 -117	16,653	Barrels 1,008
1974 1975 1976 1977	AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE	10,498 10,045 9,774 9,913 10,328 10,179	8,774 8,375 8,132 8,245 8,707	1,688 1,633 1,603	-62 -17	-117	16,653	1,008 6 1,074
1979 1980		10,214	8,552 8,597	1,618 1,567 1,584 1,573	-39 -170 -78 -148 -98	96 -378 172 -25 -42	16,322 17,461 18,431 18,847 18,513 17,056	1,133 1,112 1,312 1,278 1,341 6 1,392
	January February March April May June July August September October November December	10,231 10,294 10,272 10,195 10,160 10,287 10,098 10,243 10,281 10,225 10,269 10,220	8,540 8,604 8,613 8,557 8,501 8,629 8,500 8,583 8,604 8,563 8,566 8,585	1,652 1,653 1,624 1,599 1,593 1,594 1,548 1,614 1,612 1,598 1,630 1,590	50 -278 -632 -595 -391 -135 -360 397 -285 -760 -325 -170	1,159 250 224 148 -374 406 91 -999 -341 477 -233 745	18,430 16,989 15,907 15,350 15,353 16,095 15,682 15,263 15,655 15,822 15,593 16,596	1,388 1,389 1,401 1,415 1,438 1,430 1,439 1,457 1,457 1,476 1,485 1,501 1,484
	January February March April April June July August September October November December	10,257 10,261 10,212 10,296 10,223 10,242 10,228 10,301 10,306 10,283 10,377 10,348	8,669 8,690 8,597 8,652 8,660 8,681 8,649 8,701 8,733 8,676 8,690 8,660	1,548 1,524 1,570 1,588 1,520 1,505 1,521 1,543 1,513 1,540 1,634 1,638	-236 -216 -65 107 49 86 -155 -440 252 -564 -357 143	1,129 1,268 1,049 1,594 -34 -515 -865 4 -489 -55 -357 703	15,890 15,941 15,560 16,048 14,845 14,931 14,771 14,838 14,921 14,820 15,031 15,508	1,461 1,431 1,401 1,350 1,349 1,362 1,394 1,407 1,415 1,434 1,455 6 1,429
1	January February March April* May**	10,356 10,298 10,259 10,229 NA	8,634 8,660 8,677 8,686 <i>8,682</i>	1,668 1,585 1,544 1,502 NA	-567 -382 -56 R -438 -81	865 1,128 1,765 R 431 -309	14,765 14,772 15,484 R 14,779 14,738	1,453 1,432 1,375 R 1,376 <i>1,388</i>

¹ Includes lease condensate.

² A negative number indicates an increase in stocks and a positive number indicates a decrease.

³ Ending stocks for 1973-1980 are totals as of December 31.

⁴ Includes crude oil, natural gas plant production, other hydrocarbons and alcohol.

includes stocks located in the Strategic Petroleum Reserve.

In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using coverage (new basis), end of year stocks would be: 1974-1,121, 1980-1,420 and 1982-1,482. Using the expanded Stock withdrawals during 1975, 1981 and 1983 are calculated using new basis stock levels.

Totals may not equal sum of components due to independent rounding.

NA = Not available. R = Revised data.

See Explanatory Note 9.1.

Italics denote preliminary data. See Explanatory Note 8.

Geographic coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section,

			Imports			Exports	1	
		Total	Crude Oll ²	Petroleum Products	Total	Crude Oil	Petroleum Products	Net ³ Imports
				Thousa	nd Barrels p	er Day		
1973	AVERAGE	6,256	3,244	3,012	231	2	229	6,025
1974	AVERAGE	6,112	3,477	2,635	221	3	218	5,892
1975	AVERAGE	6,056	4,105	1,951	209	6	204	5,846
1976	AVERAGE	7,313	5,287	2,026	223	8	215	7,090
	AVERAGE	8,807		2,193	243	50	193	8,565
1977			6,615					
1978	AVERAGE	8,363	6,356	2,008	362	158	204	8,002
1979	AVERAGE	8,456	6,519	1,937	472	235	237	7,984
1980	AVERAGE	6,909	5,263	1,646	544	287	258	6,365
1981	January	6,827	4,932	1,895	558	339	219	6,270
	February	6,772	4,873	1,899	569	198	371	6,203
	March	6,028	4,521	1,507	586	210	376	5,442
	April	5,668	4,338	1,330	570	198	372	5,098
	May	5,775	4,287	1,489	595	312	283	5,180
	June	5,435	4,061	1,375	420	123	297	5,015
	July	5,816	4,296	1,521	571	257	314	5,245
			4,230		644	204	440	
	August	5,767		1,588				5,123
	September	6,365	4,740	1,624	519	194	325	5,845
	October	5,959	4,380	1,579	738	226	512	5,221
	November	5,741	4,046	1,695	701	278	423	5,041
	December	5,843	4,137	1,706	656	189	467	5,187
	AVERAGE	5,996	4,396	1,599	595	228	367	5,401
1982	January	5,232	3,648	1,585	829	238	591	4,404
	February	4,691	2,949	1,742	804	304	499	3,887
	March	4,461	2,856	1,606	882	321	561	3,579
	April	4,286	2,813	1,474	786	174	611	3,501
	May	4,784	3,314	1,471	803	262	542	3,981
	June	5,227	3,782	1,445	703	94	609	4,524
	July	5,763	4,245	1,518	741	229	512	5,022
	August	5,156	3,820	1,336	858	304	554	4,298
			3,603	1,757	791	184	606	4,569
	September	5,359			932	270	662	
	October	5,230	3,636	1,594				4,298
	November	5,726	3,863	1,864	786	262	524	4,940
	December	4,562	2,956	1,606	860	193	667	3,702
	AVERAGE	5,041	3,461	1,581	815	236	579	4,226
1983	January	4,372	2,938	1,434	973	117	856	3,399
	February	3,691	2,268	1,423	865	262	603	2,825
	March	3,629	2,232	1,398	801	174	627	2,829
	April*	R 4,744	R 3,154	R 1,590	809	88	721	3,935
	May**	5,004	3,450	1,554	NA	NA	NA	NA
	AVERAGE	4,297	2,817	1,480	NA	NA	NA	NA

¹ Includes lease condensate.

Sources: See "Sources" at the end of this section.

² Includes crude oil for storage in the Strategic Petroleum Reserve.

Net Imports = Imports minus Exports.

Totals may not equal sum of components due to independent rounding.

NA = Not available. R = Revised data.

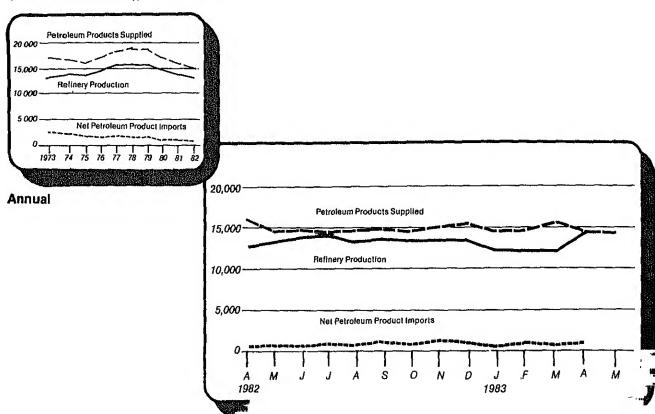
See Explanatory Note 9.1.

[&]quot;Italics denote preliminary data, See Explanatory Note 8.

Geographic coverage: The 50 United States and the District of Columbia.

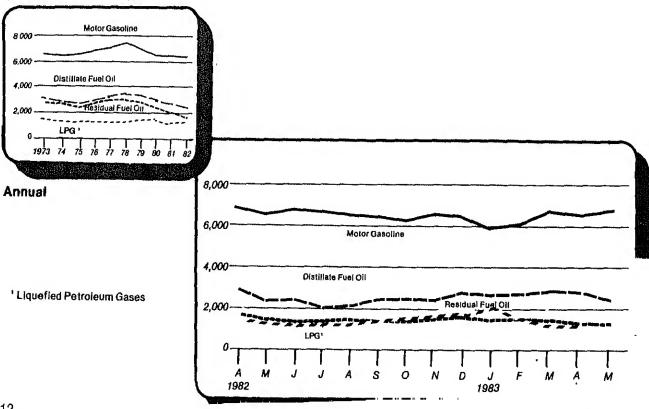






Petroleum Products Supplied

(Thousand Barrels Per Day)



Monthly

Crude Oil Supply and Disposition (Thousand Barrels Per Day) Refinery Inputs 15.000 12,500 Domestic Crude Oil Production 10,000 7,500 5,000 2,500 78 79 80 76 77 Refinery Inputs 12,500 Annual 10,000 Domestic Crude Oil Production ' Excludes SPR Imports 7,500 5.000

Net Imports

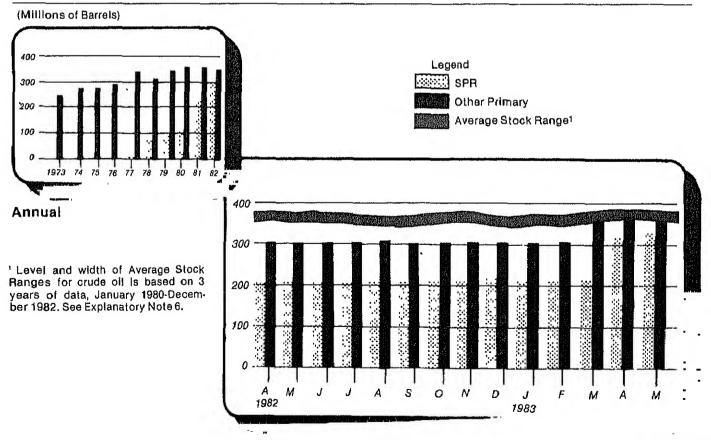
1983

Monthly

2,500

1982





				Su	pply			
	Field Pro	oduction		Imports			ock rawal²	
	Total Domestic	Alaskan	Total	SPR ³	Other	SPR ³	Other	Unac- accounted for Crude Oil
		J		Thousand B	arrels per Day	,		
1973 AVERAGE 1974 AVERAGE 1975 AVERAGE 1976 AVERAGE 1977 AVERAGE 1978 AVERAGE 1979 AVERAGE 1980 AVERAGE	8,774 8,375 8,132 8,245 8,707 8,552	198 193 191 173 464 1,229 1,401 1,617	3,244 3,477 4,105 5,287 6,615 6,356 6,519 5,263	21 162 67 44	3,244 3,477 4,105 5,287 6,594 6,195 6,452 5,219	-20 -163 -67 -45	11 -62 -17 -39 -150 84 -81	3 -25 17 77 -6 -57 -11
1981 January February	8,540 8,604	1,606 1,619	4,932 4,873	106 80 140	4,826 4,793 4,382	-151 -127 -155	201 -150 -477	113 -41 154
March April May June	8,613 8,557 8,501 8,629	1,618 1,608 1,580 1,632	4,521 4,338 4,287 4,061	272 386 318	4,362 4,066 3,901 3,743	-193 -444 -513 -434	-151 122 299	51 286 49
July August September	8,500 8,583 8,604	1,605 1,602 1,607	4,296 4,179 4,740	175 257 435	4,121 3,922 4,305	-324 -372 -486	-36 769 201	147 16 ~295
October November December	8,563 8,586 8,585	1,596 1,614 1,623	4,380 4,046 4,137	453 271 165	3,927 3,774 3,971	-501 -259 -252	-259 -66 82	166 279 52
AVERAGE	8,572	1,609	4,396	256	4,141	-336	46	83
1982 January February March April May June July	8,669 8,690 8,597 8,652 8,660 8,681 8,649	1,712 1,715 1,702 1,687 1,725 1,675 1,715	3,648 2,949 2,856 2,813 3,314 3,782 4,245	170 159 185 190 204 105 97	3,478 2,790 2,671 2,623 3,110 3,678 4,147	-159 -213 -235 -233 -176 -105 -97	-77 -3 170 341 225 191 -58	-138 199 278 56 105 110
August September October November December	8,701 8,733 8,676 8,690 8,660	1,699 1,707 1,677 1,667 1,663	3,820 3,603 3,636 3,863 2,956	208 139 216 180 124	3,611 3,463 3,420 3,683 2,832	-208 -143 -216 -179 -125	-233 395 -348 -177 267	140 218 324 141 2
AVERAGE	8,671	1,695	3,461	165	3,296	-174	57	60
1983 January February March April* May**	8,634 8,660 8,677 R 8,686 <i>8,682</i>	1,698 1,725 1,726 1,710 1,710	2,938 2,268 2,232 R 3,154 <i>3,450</i>	219 197 201 R 205 <i>277</i>	2,720 2,071 2,031 R 2,949 3,173	-219 -197 -184 R -197 - <i>276</i>	-348 -185 240 R -241 <i>195</i>	238 423 134 191 NA
AVERAGE	8,668	1,714	2,817	220	2,597	-215	-64	NA

¹ Includes lease condensate.

² A negative number indicates an increase in stocks and a positive number indicates a decrease.

³ Strategic Petroleum Reserve.

Totals may not equal sum of components due to independent rounding.

NA = Not available. R = Revised data.

See Explanatory Note 9.2.

[&]quot;Italics denote preliminary data. See Explanatory Note 8,
Note: Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels.

Geographic coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.

		Supply		Dispo	sition		E	nding Stock	82
		Crude Used Directly ³	Crude Losses	Refinery Inputs	Exports	Product Supplied ³	Total Crude Oll	SPR4	Other Primary
			Thous	and Barrels p	er Day	-la	MI	lions of Bari	rels
1973	AVERAGE	-19	13	12,431	2	NA	242		242
1974	AVERAGE	-15	13	12,133	3	NA	⁵ 265		6 265
1975	AVERAGE	-17	13	12,442	6	NA	271		271
1976	AVERAGE	-18	15	13,416	8	NA	285		285
1977	AVERAGE	-14	16	14,602	50	NA	348	7	340
1978	AVERAGE	-14	16	14,739	158	NA	376	67	309
1979	AVERAGE	-13	16	14,648	235	NA	430	91	339
1980	AVERAGE	-13	15	13,481	287	NA	5 466	108	§ 358
1981	January	-43	6	13,247	339	NA	486	112	374
	February	-55	3	12,902	198	NA	494	116	378
	March	-57	6	12,383	210	NA NA	514	121	393
	April	-57 -59	3	12,091	198	NA	532	134	397
	May	-59 -59	3	12,309	312	NA NA	544		394
		-58	7					150	
	June			12,415	123	NA	548	163	385
	July	-58	7	12,261	257	NA	559	173	386
	August	-58	5	12,908	204	NA	547	185	362
	September	-61	4	12,505	194	NA	555	199	356
	October	-63	3	12,057	226	NA	579	215	364
	November	-64	4	12,240	278	NA	589	223	366
	December	-63	4	12,349	189	NA	594	230	363
	AVERAGE	-58	5	12,470	228	NA			
1982	January	-63	3	11,638	238	NA	606	235	371
	February	-64	2	11,252	304	NA	612	241	371
	March	-63	5	11,277	321	NA	614	249	366
	April	-65	3	11,386	174	NA	611	256	355
	May	-62	3	11,801	262	NA	609	261	348
	June	-60	7	12,498	94	NA	607	264	343
	July	-60	3	12,447	229	NA	612	267	345
	August	~57	2	11,858	304	NA	625	274	352
	September	-56	3	12,126	184	ŇA	618	278	340
	October	-51	2	11,750	270	NA	635	285	351
	November	-51	1	11,741	262	NA	646	290	356
	December	-53	1	11,514	193	NA	6 642	294	5 348
	AVERAGE	-58	4	11,776	236	NA			
1983	January	NA	2	11,070	117	54	661	301	361
	February	NA	3	10,635	262	69	672	306	366
	March	NA	2	10,854	174	70	670	312	359
	April*	NA NA	2	R11,436	88	68	R 684	318	R366
	May**	NA NA	NA	11,857	NA	NA	686	327	359
	AVERAGE	NA	NA	11,179	NA	NA			

Includes lease condensate.

Totals may not equal sum of components due to independent rounding.

² Ending stocks for 1973-1980 are totals as of December 31.

³ Beginning in January 1983, crude oil used directly as fuel is presented as product supplied for crude oil. Prior to January 1983 crude oil used directly was included with crude oil losses in this table and with product supplied for distillate and residual fuel oils.

⁴ Strategic Petroleum Reserve.

⁵ In January 1975, 1981, and 1983, significant numbers of new respondents were added bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis) end of year stocks would be: 1974-265, 1980-483 (Total) and 376 (Other Primary), and 1982-644 (Total) and 350 (Other Primary).

R = Revised data. NA = Not available. R
*See Explanatory Note 9.2.

[&]quot;Italics denote preliminary data. See Explanatory Note 8.

Geographic coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.

			Supply			Disp	osition		Ending	Stocks ¹
					}	P	roduct Supplic	ad		
		Total Produc- tion	imports ²	Stock With- imports ² drawal ² ³		Total	Unleaded ⁵	Unleaded	Total Motor Gasoline ⁴	Finished Motor Gasoline
				Thousand Ba	rrels per Day			Percent of Total	Millions	of Barrels
1973	AVERAGE	6,535	134	9	4	6,674	NA	NA	209	
1974	AVERAGE	6,360	204	-24	2	6,537	NA	NA	6 218	
975	AVERAGE	6,520	184	-28	2	6,675	NA	NA	235	
1976	AVERAGE	6,841	131	10	3	6,978	NA	NA	231	
1977	AVERAGE	7,033	217	-72	2	7,177	1,976	27.5	258	
1978	AVERAGE	7,169	190	54	1	7,412	2,521	34.0	238	
1979	AVERAGE	6,852	181	2	(8)	7,034	2,798	39.8	237	
1980	AVERAGE	6,506	140	-66	1	6,579	3,067	46.6	⁶ 261	
1981		6,715	138	-421	(8)	6,431	3,141	48.8	276	227
	February	6,308	111	-118	1	6,301	3,095	49.1	284	230
	March	6,213	171	-81	(a)	6,303	3,097	49.1	285	23:
	April	6,114	186	303	(s)	6,602	3,284	49.7	272	22
	May	6,122	150	344	'′ 1	6,615	3,115	47.1	259	21
	June	6,220	186	622	i	7,028	3,419	48.6	242	19
	July	6,405	151	268	(s)	6,823	3,424	50.2	228	18
	August	6,611	124	~95	`′ 3	6,637	3,344	50.4	233	18
	September	6,564	169	~70	2	6,662	3,338	50.1	237	19
	October	6,426	147	7	3	6,578	3,257	49.5	236	19
	November	6,564	148	-338	1	6,373	3,198	50.2	248	20
	December	6,586	197	-91	11	6,681	3,144	51.5	253	20
	AVERAGE	6,405	157	28	2	6,588	3,264	49.5		
1982	January	6,181	114	-358	18	5,920	3,033	51.2	262	214
	February	5,917	133	28	8	6,070	3,145	51.8	262	210
	March	6,004	183	469	44	6,612	3,396	51.4	248	19
	April	6,104	177	841	33	6,890	3,494	50.7	223	180
	May	6,322	163	188	23	6,650	3,415	51.3	215	17
	June	6,767	195	-136	14	6,812	3,561	52.3	220	17
	July	6,788	200	-165	24	6,799	3,574	52.6	226	18
	August	6,447	284	-60	16	6,655	3,520	52.9	226	18
	September	6,530	215	-217	22	6,507	3,385	52.0	234	19
	October	6,253	177	-25	15	6,391	3,360	52.6	234	19
	November	6,273	208	91	11	6,559	3,448	52.6	230	18
	December	6,540	178	-164	7	6,548	3,486	53.2	⁶ 235	6 19
	AVERAGE	6,347	186	24	20	6,537	3,403	52.1		
1983	January	6,020	148	-186	(8)	5,981	3,352	56.0	251	20
	February	5,848	142	32	(8)	6,022	3,257	54.1	251	20
	March	5,897	205	765	23	6,843	3,620	52.9	224	18
	April*	R6,202	R 273	R 27	1	R 6,501	3,505	53.9	R 221	R18
	May**	6,439	272	19	NA	6,722	NA	NA	220	185
	AVERAGE	6,085	209	134	NA	6,421	NA	NA		

¹ Ending stocks for 1973-1980 are totals as of December 31.

² Beginning in 1981, excludes blending components.

³ A negative number indicates an increase in stocks and a positive number indicates a decrease.

⁴ Includes motor gasoline blending components.

⁵ includes gasohol.

In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end of year stocks would be: 1974-225, 1980-263, 1982-244 (Total) and 203 (Finished). Stock withdrawals during 1975-1981 and 1983 are calculated using new basis stock levels.

during 1975, 1981, and 1983 are calculated using new basis stock levels.

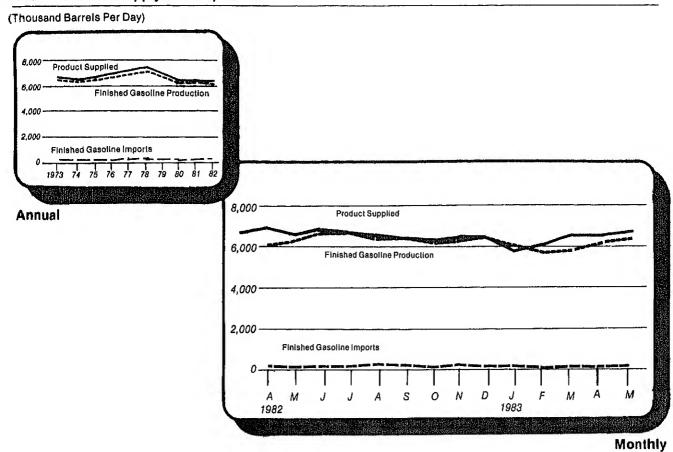
(6) = Less than 500 barrels per day. NA = Not available. R = Revised data.

^{*} See Explanatory Note 9,3.

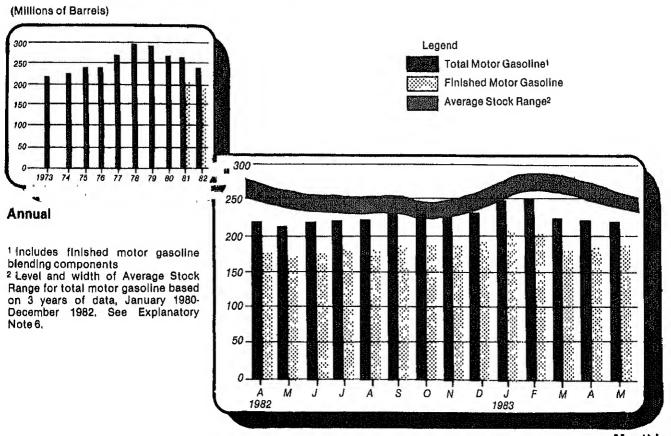
[&]quot;Italics denote preliminary data. See Explanatory Note 8. Note: Beginning in January 1981, survey forms were modified.

Geographic coverage: The 50 United States and the District of Columbia.

⁵ Sources: See "Sources" at the end of this section.



Motor Gasoline Ending Stocks



			Şı	pply		Dispo	osition	Ending Stocks ¹
		Total Production	Imports	Stock Withdrawai ²	Crude Used Directly ³	Exports	Product Supplied ³	
				Thousand Bar	rels per Day			Millions of Barrels
1973	AVERAGE	2,822	392	-115	2	9	3,092	196
1974	AVERAGE	2,669	289	-9	2	2	2,948	4 200
1975	AVERAGE	2,654	155	40	2	ĩ	2,851	209
1976	AVERAGE	2,924	146	62	ī	i	3,133	186
1977	AVERAGE	3,278	250	-176	i	i	3,352	250
1978	AVERAGE	3,167	173	93	i	3	3,432	216
1979	AVERAGE	3,153	193	-34	i	3	3,311	229
1980	AVERAGE	2,662	142	64	i	3	2,866	4 205
		•	470	200		/=1		470
1981	January	2,989	273	836	11	(8)	4,109	179
	February	2,809	325	246	11	17	3,373	173
	March	2,484	147	264	9	(s)	2,904	164
	April	2,418	116	-9	10	3	2,532	165
	May	2,454	179	-232	10	(s)	2,411	172
	June	2,501	225	-270	9	(8)	2,464	180
	July	2,395	179	-204	10	2	2,378	186
	August	2,656	174	-450	8	(s)	2,388	200
	September	2,610	129	-235	10	1	2,513	207
	October	2,485	119	197	9	5	2,803	201
	November	2,716	124	36	11	6	2,880	200
	December	2,856	95	277	11	26	3,212	192
	AVERAGE	2,613	173	38	10	5	2,829	
1982	January	2,615	96	780	10	90	3,410	168
	February	2,447	130	689	11	90	3,187	147
	March	2,294	48	612	10	84	2,881	128
	April	2,357	59	631	13	64	2,996	109
	May	2,818	74	-184	10	75	2,444	114
	June	2,731	100	-335	10	55	2,450	125
	July	2,734	124	-761	11	24	2,084	148
	August	2,526	79	-346	10	40	2,228	159
	September	2,658	59	-77	12	139	2,514	161
	October	2,837	97	-290	8	66	2,586	170
	November	2,863	141	-514	8	24	2,475	186
	December	2,655	109	226	10	143	2,856	4 179
	AVERAGE	2,612	93	32	10	74	2,672	
1983	January	2,314	58	561	NA	173	2,760	168
1000	February	2,136	58	742	NA NA	105	2,832	147
	March	1,991	42	926	NA NA	59		119
	April*	A 2,169	R 73		NA NA	47	2,900 B 2,712	103
	May**	2,169 2,443	99	R 518 <i>-118</i>	NA NA	NA NA	R 2,713 <i>2,338</i>	103 107
	AVERAGE	2,212	86	522	NA	NA	2,706	•

¹ Ending Stocks for 1973-1980 are totals as of December 31.

² A negative number indicates an increase in stocks and a positive number indicates a decrease.

Beginning in January 1983, product supplied for distillate fuel oil does not include crude oil used directly. See Explanatory Note 4.

⁴ In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end of year stocks would be: 1974-224, 1980-205, and 1982-186. Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels.

⁽s) = Less than 500 barrels per day. NA = Not available. R = Revised data.

Totals may not equal sum of components due to independent rounding.

See Explanatory Note 9.4.

talics denote preliminary data. See Explanatory Note 8.

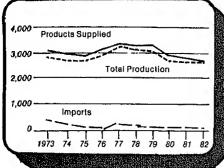
Note: Beginning in January 1981, survey forms were modified.

Geographic Coverage: The 50 United States and the District of Columbia.

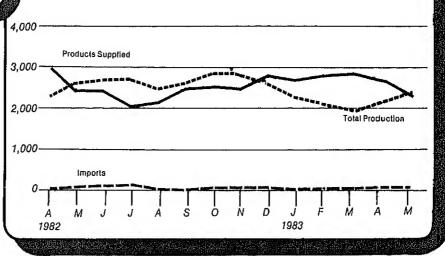
Sources: See "Sources" at the end of this section.

Distillate Fuel Oil Supply and Disposition



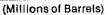


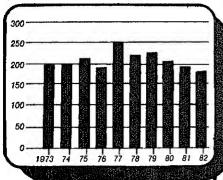
Annual



Monthly

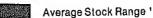
Distillate Fuel Oil Ending Stocks





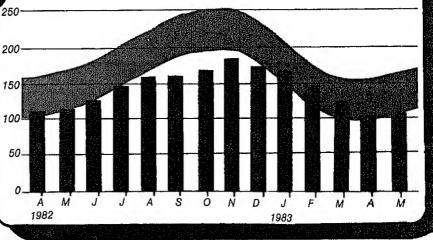
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Legend



Annual

¹ Level and width of Average Stock Range for distillate fuel oil is based on 3 years of data, January 1980-December 1982. See Explanatory Note 6.



Monthly 19

			Su	pply		Disp	osition	Ending Stocks ¹	
		Total Produc- tion	Imports	Stock Withdrawal ²	Crude Used Directly ³	Exports	Product Supplied ³		
		Thousand Barrels per Day							
1973	AVERAGE	971	1,853	5	17	23	2,822	53	
1974	AVERAGE	1,070	1,587	-17	13	14	2,639	4 60	
1975	AVERAGE	1,235	1,223	2	15	15	2,462	74	
1976	AVERAGE	1,377	1,413	5	17	12	2,801	72	
1977	AVERAGE	1,754	1,359	-48	13	6	3,071	90	
1978	AVERAGE			-40 -1	13	13		90	
1979		1,667	1,355	-15	12	9	3,023	96	
	AVERAGE	1,687	1,151	•	• -	-	2,826		
1980	AVERAGE	1,580	939	10	12	33	2,508	4 92	
1981	January	1,612	1,015	302	32	65	2,896	82	
	February	1,565	954	150	44	125	2,588	78	
	March	1,424	699	100	48	145	2,126	75	
	April	1,320	584	66	49	151	1,868	73	
	May	1,223	741	-170	49	25	1,817	78	
	June	1,232	540	291	49	76	2.037	69	
	July	1,174	830	2	48	82	1.971	69	
	August	1,231	819	-179	50	69	1,852	75	
	September		841	-176	51	126		80	
		1,292	786	• • • • • • • • • • • • • • • • • • • •	54		1,882		
	October	1,238		8	• •	202	1,884	80	
	November	1,227	880	-49	53	203	1,909	81	
	December	1,329	916	110	52	157	2,250	78	
	AVERAGE	1,321	800	37	48	118	2,088		
982	January	1,183	821	328	53	235	2,150	68	
	February	1,136	928	358	53	213	2,261	58	
	March	1,121	910	26	53	197	1,912	57	
	April	1,162	762	124	52	234	1.867	54	
	May	1,127	738	-175	52	191	1,551	59	
	June	1,077	643	-49	50	217	1,504	61	
	July	1,029	576	51	49	239	1,466	59	
	August	1,007	519	200	47	235	1,538	53	
	September	1,007	871	-302	44	148	1,472	62	
	October	954	758	-56	43	234	1,466	64	
	November	989	843	-95	43	182	1,597	66	
	December	990	747	-95 8		186		4 66	
	December	990	747	0	43	100	1,602	7 00	
	AVERAGE	1,065	758	33	48	209	1,695		
983	January	935	691	243	NA	294	1,574	61	
	February	857	632	270	NA	191	1,568	53	
	March	833	686	220	NA	169	1,569	46	
	April*	R 942	R 743	FI -10	NA	310	R1,364	R 47	
	May**	1,002	660	-145	NA	NA	1,334	49	
	AVERAGE	915	683	113	NA	NA	1,481		

¹ Ending Stocks for 1973-1980 are totals as of December 31.

² A negative number indicates an increase in stocks and a positive number indicates a decrease.

³ Beginning in January 1983, product supplied for residual fuel oil does not include crude oil used directly. See Explanatory Note 4.

In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end of year stocks would be: 1974-75, 1980-91, and 1982-68. Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels.

Totals may not equal sum of components due to independent rounding.

NA = Not available. R = Revised data,

See Explanatory Note 9.4.

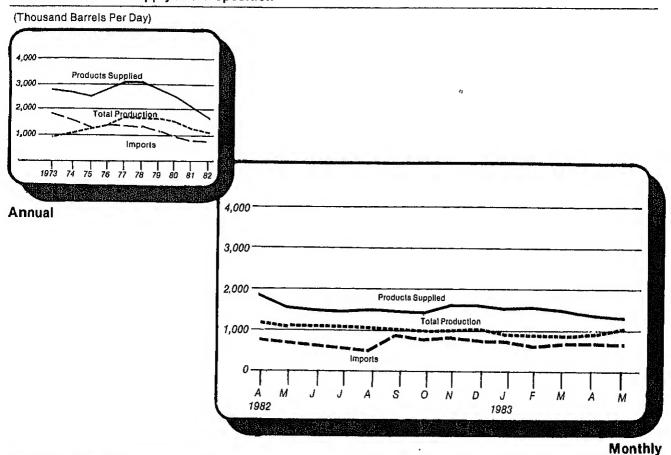
[&]quot; Italica denote preliminary data. See Explanatory Note 8.

Note: Beginning in January 1981, survey forms were modified.

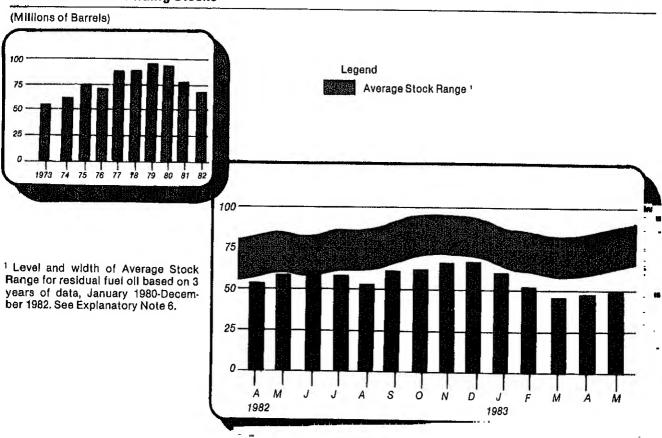
Geographic Coverage: The 50 United States and the District of Columbia.

Sources: 'See "Sources" at the end of this section.

Residual Fuel Oil Supply and Disposition



Residual Fuel Oil Ending Stocks



			Supply			Disposition		Ending, Stocks ¹
		Total Production	" Imports	Stock Withdrawal ²	Refinery Inputs	Exports	Product Supplied	
				Thousand Ba	rrels per Day		<u>, , , , , , , , , , , , , , , , , , , </u>	Millions of Barrels
1973	AVERAGE	1,600	132	-35	220	27	1,449	99
1974	AVERAGE	1,565	123	-38	220	25	1,406	3 113
1975	AVERAGE	1,527	112	-35	246	26	1,333	125
1976	AVERAGE	1,535	130	24	260	25	1,404	116
1977	AVERAGE	1,566	161	-55	233	18	1,422	136
1978	AVERAGE	1,537	123	12	239	20	1,413	132
1979	AVERAGE	1,556	217	70	236	15	1,592	111
1980	AVERAGE	1,535	216	-27	233	21	1,469	³ 120
1000	A A STATE OF THE	11000	,				,,	
1981	January	1,617	306	363	352	21	1,913	117
	February	1,593	327	173	303	21	1,769	112
	March	1,551	260	-4	257	20	1,530	112
	April	1,586	214	-236	231	26	1,308	119
	May	1,587	189	-258	220	19	1,279	127
	June	1,567	206	-208	237	24	1,304	133
	July	1,507	213	-258	215	17	1,229	141
	August	1,592	195	-242	235	149	1,160	149
	September	1,622	199	-75	287	21	1,438	151
	October	1,593	287	72	320	76	1,556	149
	November	1,571	280	86	383	58	1,495	146
	December	1,468	255	379	428	50 50	1,624	135
	Decelline	1,400	200	0/3	720	00	1,024	100
	AVERAGE	1,571	244	~18	289	42	1,466	
1982	January	1,546	314	480	398	67	1,873	122
	February	1,476	291	310	327	51	1,699	114
	March	1,523	223	145	289	74	1,528	109
	April	1,566	188	107	257	77	1,527	106
	May	1,583	186	-61	235	43	1,431	108
	June	1,571	192	-109	262	106	1,286	111
	July	1,556	227	-5	253	37	1,487	111
	August	1,591	125	-44	254	61	1,357	112
	September	1,606	247	33	273	85	1,528	111
	October	1,582	194	92	306	81	1,481	109
	November	1,603	267	172	370	37	1,634	103
	December	1,626	258	270	395	56	1,702	3 95
	AVERAGE	1,570	225	115	301	65	1,544	
1983	January	1,662	240	618	313	118	2,088	84
	February	1,560	305	84	237	76	1,636	81
	March	1,517	166	- 51	189	127	1,316	83
	Aprif*	1,531	124	-107	198	116	1,232	86
	AVERAGE	1,568	207	139	234	110	1,569	

¹ Ending stocks for 1973 - 1980 are totals as of December 31.

² A negative number indicates an increase in stocks and a positive number indicates a decrease.

A riegative indicates an increase in stocks and a positive indicates a decrease.

In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis),

end of year stocks would be: 1974-113, 1980-128, and 1982-103. Stock withdrawals during 1975,

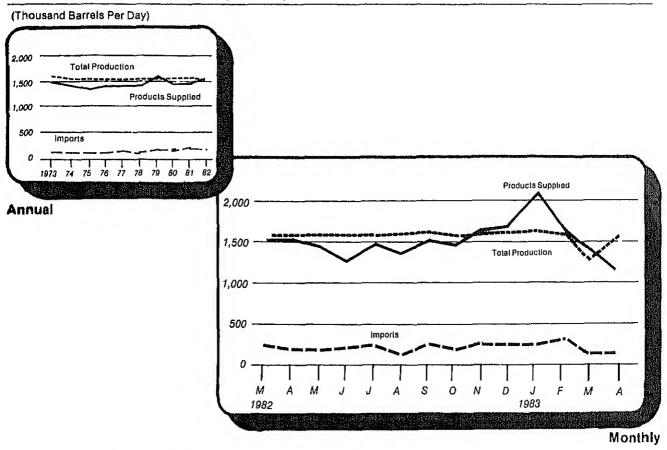
^{1981,} and 1983 are calculated using new basis stock levels.

Totals may not equal sum of components due to independent rounding.

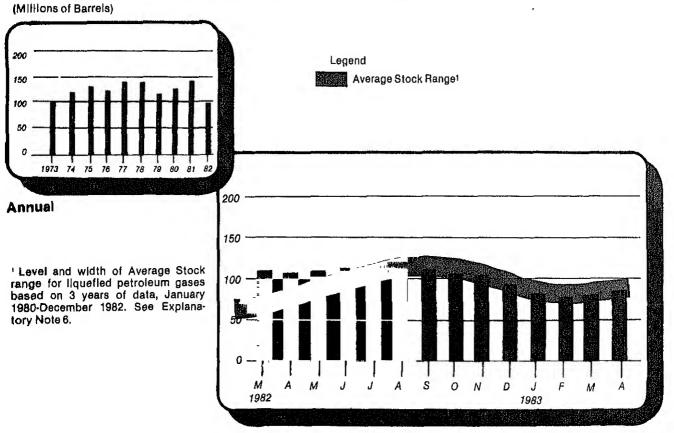
See Explanatory Note 9.5.

Geographic coverage: The 50 United States and the District of Columbia, Sources: See "Sources" at the end of this section,

Liquefied Petroleum Gases Supply and Disposition



Liquefied Petroleum Gases Ending Stocks



			Supply			Ending Stocks ²		
		Total Produc- tion	imports	Stock Withdrawai ³	Refinery Inputs	Exports	Products Supplied	
				Thousand Bar	rels per Day			Millions of Barrels
1973	AVERAGE	3,693	502	-9	750	166	3,270	208
1974	AVERAGE	3,558	432	-28	665	174	3,123	4 218
1975	AVERAGE	3,424	277	-2	537	160	3,002	219
1976	AVERAGE	3,643	206	- 5	524	175	3,145	220
1977	AVERAGE	3,912	205	-27	514	165	3,410	230
978	AVERAGE	4,046	166	14	492	167	3,568	225
1979	AVERAGE	4,153	195	-37	352	209	3,749	238
980	AVERAGE	3,956	210	-23	311	198	3,634	4 247
981	January	3,821	162	80	851	132	3,081	296
	February	3,723	182	-200	538	208	2,958	302
	March	3,722	230	-55	642	210	3,043	304
	April	3,711	230	24	733	192	3,040	303
	May	3,892	229	-58	594	238	3,231	305
	June	3,925	218	-29	656	197	3,261	306
	July	3,852	149	284	791	212	3,282	297
	August	3,876	276	-33	676	219	3,225	298
	September	3,718	285	215	883	176	3,159	291
	October	3,503	241	193	710	227	3,000	285
	November	3,579	262	33	784	154	2,935	284
	December	3,543	243	71	805	223	2,829	282
	AVERAGE	3,739	226	46	723	199	3,088	
982	January	3,181	240	-102	602	180	2,536	284
	February	3,364	260	-116	646	138	2,724	287
	March	3,485	241	-204	734	161	2,627	294
	April	3,394	287	91	801	204	2,767	291
	May	3,296	309	198	823	210	2,769	285
	June	3,481	315	115	815	216	2,879	281
	July	3,578	391	15	862	187	2,935	281
	August	3,519	329	256	841	202	3,060	273
	September	3,442	365	74	767	213	2,901	271
	October	3,472	367	223	901	266	2,896	264
	November	3,464	406	-12	824	269	2,766	264
	December	3,285	314	363	886	275	2,801	4 253
	AVERAGE	3,413	319	77	793	211	2,805	
983	January	3,222	297	-371	570	271	2,307	271
	February	3,270	287	-1	680	232	2,645	271
	March	3,400	298	-94	570	249	2,786	273
	Aprîl*	3,363	377	3	596	247	2,901	273
	AVERAGE	3,314	315	-120	602	250	2,658	

Includes natural gasoline and isopentane, unfractionated stream, plant condensate, other liquids; and all finished petroteum products except finished motor gasoline, distillate fuel oil, residual fuel oil, and liquefied petroleum gases.

² Ending Stocks for 1973-1980 are totals as of December 31.

³ A negative number indicates an increase in stocks and a positive number indicates a decrease.

In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end of year stocks would be: 1974-220, 1980-249, and 1982-259. Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels.

Totals may not equal sum of components due to independent rounding.

^{*} See Explanatory Note 9.6.

Geographic Coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.

	Aigeria	Libya	Saudi Arabia	United Arab Emirates	Indonesia	Iran	Nigeria	Venezue-	Other OPEC ²	Total OPEC	Total Arab OPEC ³
	Thousand Barrels per Day										
1973 AVERAGE	136	184	486	71	213	223	459	1,135	106	2,993	915
1974	190	4	461			469	713	979	88	3,280	752
AVERAGE				74	300						1,383
AVERAGE 1976	282	232	715	117	390	280	762	702	122	3,601	
AVERAGE 1977	432	453	1,230	254	539	298	1,025	700	134	6,086	2,424
AVERAGE 1978	559	723	1,380	335	541	535	1,143	690	287	6,193	3,185
AVERAGE	649	654	1,144	385	573	555	919	645	226	5,751	2,963
AVERAGE	636	658	1,356	281	420	304	1,080	690	212	5,637	3,056
AVERAGE	488	554	1,261	172	348	9	857	481	130	4,300	2,551
1981	044	£00	1.004	00	424	0	908	549	27	4,127	2,219
January	341	500 468	1,284	93 93	424	0	866	463	92	3,891	2,064
February	381	485	1,122	47	328	Ö	771	360	54	3,425	1,912
vlarch	352 263	485	1,027 1,034	68	307	Ö	812	237	39	3,245	1,867
April	393	443	933	17	297	Ö	664	331	124	3,203	1,796
vlay			865	60	367	ő	528	248	118	2,922	1,703
June	356	380 251		80	340	Ö	651	466	38	3,233	1,757
July	333		1,073	61	340	Ö	321	523	84	3,070	1,765
August	348	274	1,082	96	371	0	323	359	149	3,264	2,063
September	336	154	1,477	90	427	0	412	389	172	3,220	1,820
October	242	147	1,342		353	Ö	517	535	56	3,184	1,724
November December	210 176	132 122	1,270 1,045	112 158	400	Ö	684	411	132	3,129	1,502
AVERAGE	311	319	1,129	81	366	0	620	406	90	3,323	1,848
1982											
January	254	161	877	87	273	0	662	376	128	2,818	1,378
February	139	92	692	79	236	0	579	347	102	2,267	1,044
March	91	37	555	155	200	0	503	399	91	2,032	860
April	85	0	479	122	215	0	427	411	79	1,818	707
May	179	0	601	116	236	0	211	414	54	1,811	897 799
June	.93	0	593	94	215	72	537	361	110	2,075	
July	122	0	644	123	327	69	910	349 288	95 124	2,640 2,057	927 807
August	170	0	489	133	272	27	542 479	514	134 52	1,907	659
September	162	0	432	57 61	191 227	2 1 108	291	496	96	2,029	810
October	249 247	7 13	494 489	61 47	283	34	480	539	115	2,029 2,246	795
November December	141	0	237	12	265	88	447	399	73	1,661	407
AVERAGE	161	26	548	91	245	35	505	408	94	2,113	840
1983											
January	204	0	282	47	255	43	186	324	43	, 1 ,384	533
February	104	0	214	9	217	0	92	371	28	1,035	326
March	63	0	103	0	138	0	121	425	173	1,023	183
April	228	0	180	(8)	210	0	186	508	125	1,438	409
AVERAGE	150	0	194	14	205	11	147	407	94	1,223	363

Excludes petroleum imported into the United States Indirectly from OPEC countries, primarily from Caribbean and West European areas, as refined petroleum products which were refined from crude oil processed in OPEC countries.

Includes Ecuador, Gabon, Iraq, Kuwait, and Qatar.

Includes Algeria, Libya, Saudi Arabia, United Arab Emirates, Iraq, Kuwait, and Qatar.

Includes Algeria, Libya, Saudi Arabia, United Arab Emirates, Iraq, Kuwait, and Qatar (*) Less than 500 barrels.

Totals may not equal sum of components due to Independent rounding.

Note: Beginning in October 1977, Strategic Petroleum Reserve imports are included.

Geographic coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.

Crude Oil and Petroleum Product Imports from Non-OPEC Sources¹

	Bahamas	Canada	Mexico	Netherlands Antilles	Trinidad and Tobago	United Kingdom	Puerto Rico ²	Virgin Islands ²	Other	Total	
	Thousand Barrels per Day										
973				585	255	15	99	329	465	3,263	
VERAGE 1974	174	1,325	16			8	90	391	340	2,832	
VERAGE 975	164	1,070	8	511	251					2,454	
VERAGE	152	846	71	332	242	14	90	406	300		
976 VERAGE	118	599	87	275	274	31	88	422	353	2,247	
977 VERAGE	171	517	179	211	289	126	105	466	550	2,614	
978 VERAGE	160	467	318	229	253	180	94	429	484	2,613	
979 VERAGE	147	538	439	231	190	202	92	431	548	2,819	
980 VERAGE	78	455	533	225	176	176	88	388	491	2,609	
981											
anuary	39	543	401	198	150	233	89	494	552	2,70	
ebruary	84	546	437	227	163	271	46	481	626	2,88	
larch	74	472	488	227	93	263	45	370	571	2,60	
pril	68	412	418	198	139	402	40	365	380	2,42	
*	122	365	522	213	105	368	58	344	474	2,57	
lay	51	353	538	196	124	397	67	262	525	2,51	
une	77	382	384	212	178	553	50	206	541	2,58	
uly	69	378	489	255	123	592	68	184	539	2,69	
lugust	111	423	708	163	169	528	72	265	661	3,10	
September	63	449	669	161	121	351	60	303	562	2,73	
October	63	547	628	168	108	253	76	294	421	2,55	
November December	70	501	587	148	125	280	73	367	563	2,71	
AVERAGE	74	447	522	197	133	375	62	327	534	2,67	
982											
lanuary	28	509	426	179	106	346	. 62	334	425	2,41	
ebruary	50	533	489	221	120	132	38	354	487	2,42	
/larch	43	435	503	189	118	293	62	307	479	2,42	
April	67	357	467	180	166	247	36	266	682	2,46	
vlay	76	416	767	152	95	516	47	302	603	2,97	
lune	32	462	797	141	129	539	58	322	673	3,15	
July	30	527	783	158	111	433	38	369	674	3,12	
August	68	435	854	145	106	520	24	320	627	3,09	
September	92	484	897	195	89	631	51	270	744	3,45	
October	45	456	682	148	109	666	52	262	783	3,20	
Vovember	48	547	860	203	90	623	81	334	694	3,48	
December	89	561	675	174	102	438	48	336	480	2,90	
AVERAGE	56	477	684	173	112	451	50	315	613	2,92	
1983	00	**	0.10	240	70	045	40	000	ron	0.00	
January	68	536	849	218	73	315	40	299	588	2,98	
February	92	592	722	179	81	193	50	192	554	2,65	
March [,]	86	488	760	187	78	240	43	162	563	2,60	
April	167	452	981	216	85	421	20	183	781	3,30	
AVERAGE	103	516	829	200	79	294	38	210	622	2,89	

¹ Includes petroleum imported into the United States indirectly from OPEC countries, primarily from Caribbean and West European areas, as refined petroleum products which were refined from crude oil produced in OPEC countries.

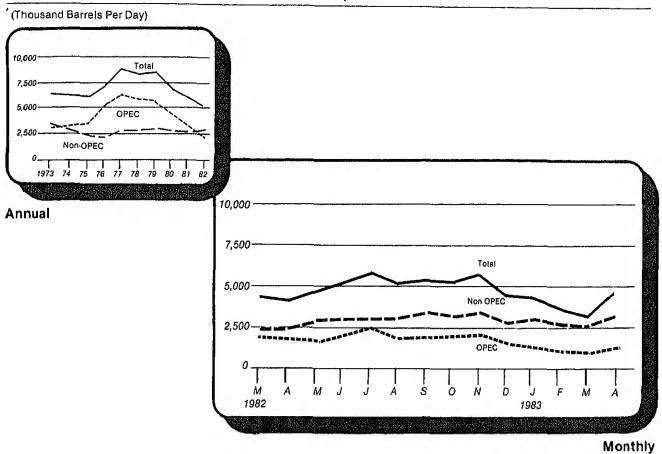
2 U.S. Possessions.

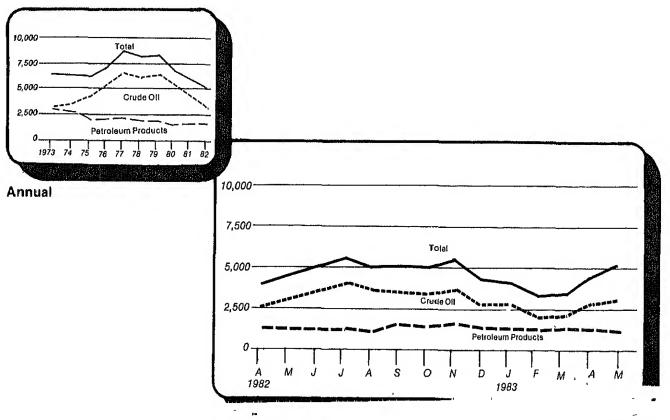
Totals may not equal sum of components due to independent rounding.

Note: Beginning in October 1977, Strategic Petroleum Reserve imports are included.

Geographic coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.





Sources

- 1. 1973 through 1976: Bureau of Mines, U.S. Department of the Interior, Petroleum Statement, Annual and PAD Districts Supply/Demand, Annual, Mineral Industry Surveys.
- 2. 1977 through 1980: Energy Information Administration, U.S. Department of Energy, *Monthly Petroleum Statistics Report*, (unleaded gasoline category).
- 1977 through 1980: Energy Information Administration, U.S. Department of Energy, Petroleum Statement, Annual and PAD Districts Supply/Demand, Annual, Energy Data Reports.
- 4. January 1981 through December 1981: Energy Information Administration, U.S. Department of Energy, *Petroleum Supply Annual*.
- 5. January 1982 through April 1983: Detailed statistics in appropriate issues of the *Petroleum Supply Monthly*. (See Explanatory Notes 9.1 through 9.6).
- May 1983: Estimates based on EIA weekly data (except domestic crude oil production) (See Explanatory Note 1.1).
- January 1982 through May 1983: Domestic crude oil production estimate based on historical statistics from State Conservation Agencies and the U.S. Geological Survey. (See Explanatory Note 3).

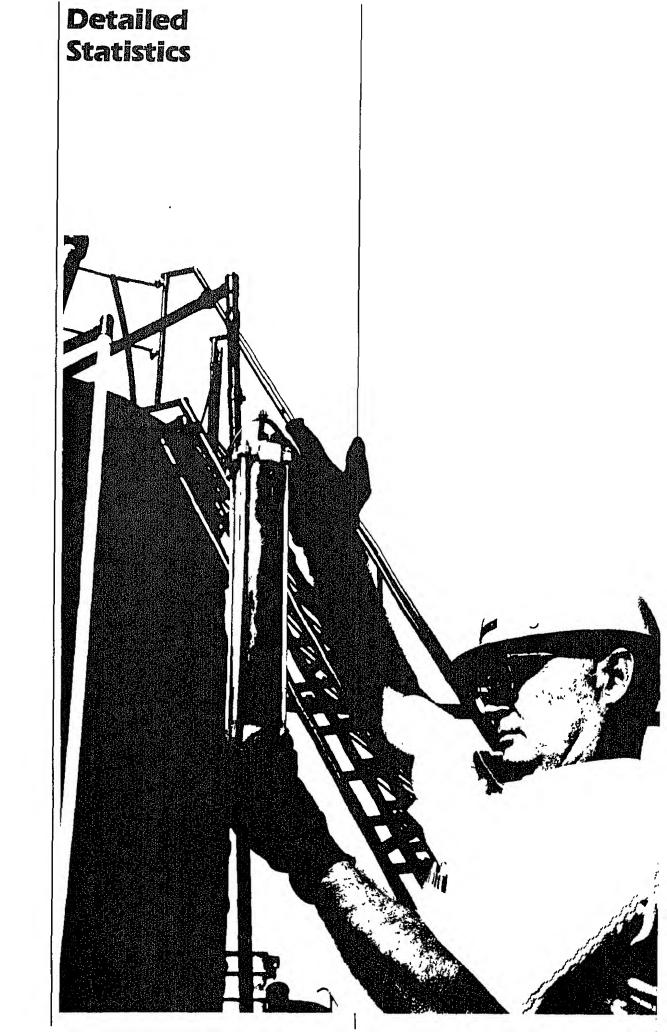


Table 1, U.S. Petroleum Balance, April 1983

	Current	Month	Year-t	o-date
	Thousand Barrels	Thousand Barrels per Day	Thousand Barrels	Thousand Barrels per Day
Crude Oil (Including Lease Condensate)				
Field Production				
1) Alaska	E 51,300	1,710	E 205,757	1,715
2) Lower 48 States,	E 209,292	6,976	€ 833,965	6,950
3) Total U.S	E 260,592	8,686	€ 1,039,722	8,664
Net Imports				
4) Imports (Gross Excluding SPR)	88,470	2,949	293,716	2,448
5) SPR Imports	6,153	205	24,668	206
3) Exports	2,630	88	18,972	158
7) Imports (Net including SPR)	91,993	3,066	299,412	2,495
B) SPR Withdrawal (+) or Addition (-)	~5,905	-197	-23.908	-199
9) Other Stock Withdrawal (+) or Addition (-)	-7,225	-241	-15,771	-131
0) Product Supplied and Losses	-2,087	-70	-8,041	-67
1) Unaccounted for 1	5,715	191	29,082	242
2) Total Other Sources	-9,502	-317	-18,638	-15 5
3) Crude Input to Refineries	343,083	11,436	1,320,496	11,004
(13) = (3) + (7) + (12)				
Natural Gas Plant Liquids (NGPL)				
4) Field Production	45,062	1,502	189,006	1,575
5) Imports 2	154	5	1,014	8
6) Stock Withdrawal (+) or Addition (-) 2	-32	-1	-2,261	-19 1 565
7) Total NGPL Supply	45,184	1,506	187,759	1,565
Unfinished Oils and Gasoline Blending Components, Total				
8) Stock Withdrawai (+) or Addition (-)	-300	-10	-4,842	-40
9) Imports	8,102	270	25,588	213
0) Other Hydrocarbons and Alcohol New Supply (Field Production)	1,221	41	5,568	46
1) Refinery Processing Gain 1	12,982	433	54,987	458
2) Crude Oil Product Supplied	2,037	68 801	7,806	65
3) Total Other Liquids	24,042	801	89,107	743
4) Total Production of Products 3,	412,310	13,744	1,597,362	13,311
(24) = (13) + (17) + (23)				
Net Imports of Refined Products 3				
5) Imports (Gross)	39,445	1,315	148,716	1,239
6) Exports	21,642	721	84,529	704
7) Imports (Net)	17,803	593	64,187	535
8) Total New Supply of Products	430,113	14,337	1,661,549	13,846
(28) = (24) + (27) 9) Relined Products Stock Withdrawal (+) or Addition (-) 3	13,244	441	133,135	1,109
0) Total Petroleum Products Supplied for Domestic Use	443,357	14,779	1,794,684	14,956
	10000	0.504	mas des	
1) Finished Motor Gasoline	195,022	6,501 2,713	761,198	6,343
2) Distillate Fuel Oil	81,382 40,921	1,364	336,124 182,283	2,801 1,519
3) Residual Fuel Oil	36,975	1,232	188,310	1,569
5) Other4	87,022	2,901	318,964	2,658
6) Crude Oil	2,037	68	7,806	65
7) Total Product Supplied	443,358	14,779	1,794,685	14,956
(37) = (31) through (36)		·		•
Ending Stocks, All Oils				
8) Crude Oil and Lease Condensate (Excluding SPR)	365,815		365,815	
9) Strategic Petroleum Reserve (SPR)	317,735		317,735	
0) Unfinished Oils	114,100		114,100	-
1) Gasoline Blending Components	38,564		38,564	
2) Natural Gasoline and Unfractionated Stream	13,729		13,729	-
3) Finished Refined Products 3	525,721		525,721	
4) Total Stocks	1,375,664		1,375,664	

¹ A balancing item.
2 Includes Isopentane, natural gasoline, unfractionated stream, and plant condensate only.
3 For products included see Explanatory Note 9 7.
4 Includes natural gasoline and isopentane, unfractionated stream, plant condensate, other liquids; and all finished petroleum products except finished motor gasoline, distillate fuel oil, residual fuel oil and liquefied petroleum gases.

E = Estimated,

-- Not Applicable.

Note Totals more not equal sum of components due to independent rounding.

Note: Totals may not equal sum of components due to independent rounding Sources and estimation procedures: See Explanatory Notes 1, 2 and 9 7

Table 2. Supply and Disposition of Crude Oil and Petroleum Products, April 1983 (Thousands of Barrels)

			Supphy				Diego	Disposition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi-	Unac- counted For Crude	Crude	Refinery	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 260,592	0	94,623	-13,130	5,715	S.	343.083	2.630	2 037	E82 EEA
Natural Gae Linnide and 1 DCe	41.011	•						2004	in the second	000,000
Natural Gasoline and Isonostane	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9696	3,860	-3,243	0	0	11.870	3.487	30 605	00 740
Infractions to the company of the comments of	0,750	0	0	828	0	0	4 979	-	2 620	
Dient Condomes	1,843	0	0	-1,758	0	. 0	8.5		4043	0,010
Figure 1	-165	0	155	888	0	· c	3 4	•	,	69/'/
Educated Petroleum Gases	36,221	969'6	3,706	-3.211	0	,	£ 0£0	2070	- 1000	430
	7,333	546	923	157		o c	96	04'5	30,973	86,020
Propane	12,647	8,148	1,466	676	0	o C	05 T	(s)	8,862	5,161
D.4	6,074	805	946	-2.425			2 250	670'7	861,02	40,744
bulane-Propane Mixtures	<u>ន</u>	2	371	-273			0000	8	7,50 1,50	7,027
Emane-Propane Modures	7,003	0	0	1677		o c	929	> (200	1,45/
fsobutane	3,001	10	0	1938	0	00	2.146	0 0	6,512	13,576
								•	?	CCO'o
Other Expressions and Alexania	1,221	0	8,102	-300	0	0	11.968	G	-2 945	152 GEA
Infinished Ole	1,22,1	0	0	۲ <u>۱</u>	0	0	1.219			200
Motor County of the county of	0	0	7,437	-2,838	0	0	5 747	· ·	7	000
Micror dasgline blending Components	0	0	665	2,453	0		4 978	0 0	1.1	14,100
Aviation Gasoline Blending Components	0	0	0	87	0	0	24	o c	-1,660	38,483
Einichad Botrofesses Despisate	;						i	•	3	3
Finished Motor Cacalina	414	370,207	35,739	16,455	0	0	0	18,155	404.660	439 701
Finished Leaded Motor Coopies	<u> </u>	185,955	8,203	797	0	0	0	38	195,022	182.909
Finished Unleaded Motor Gasoline	7 8	84,486	5,028	324	0	0	0	38	89,872	90.968
Finished Adation Gasoline	3 6	101,469	3,1/6	473	0	0	0	0	105,150	91.941
Naththa-Tyne let Fiel	8 9	800	- 3	97	0	0	0	0	77.4	2,429
Kerosene-Type Jet Fuel	Э т	0,000	(s)	961	0 (0	0	200	6,431	6,401
Kerosene	- er	27.10	5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00	7,032	-	0 (0	17	25,219	33,849
天		65,070	207 6	200	.	> (> •	•	3,903	8,307
Residual Fuel Oil		78.247	20.00	100°	> 0	o 0	01	1,408	81,382	103,183
Use	• •	4 301	403,24 400	ה של הלילו	> (5 (D 1	9,311	40,921	46,614
Other Oils > 400 Dea for Petro. Feet 11se	0 0	0,00	õ	627	> 0	o (0	130	4,123	2,246
Special Naphthas	9 0	000,0	7 10	£23	0 (-	0	299	8,398	1,756
labrants	2	900,	407	7	0	0	0	33	2,086	3,126
	> c	012,4	153	451	0	0	0	6 4	4,170	12.653
Petroleum Coke	> (424	93°	•	0	0	0	5	434	770
Ashbalt and Boad Oil	> c	11,418	0 ;	-32	0	0	0	5,710	5,673	6.618
Still Gae	-	10,658	& €	-2,945	0	0	0	-	7,781	27.299
Mecellanous Docknote	- (15,374	0	0	0	0	0	0	15,374	0
wiscental routes	821	1,469	1,298	109	0	0	0	34	2,971	1,541
Total	306,876	379,903	142.325	-218	5715	Ç.	266 001	070 70	1000	
						}	10000	717,47	445,357	1,3/5,554

Unaccounted for crude oil is a balancing item.
 Less than 500 Barrels per day.
 E = Estimated.
 Note. Totals may not equal sum of components due to independent rounding Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 3. Year-to-Date Supply and Disposition of Crude Oil and Petroleum Products, January-April 1983 (Thousands of Barrels)

			Sunniv				Disno	Disnosition		
Commodity	Field Produc- tion	Refinery Produc- ton	Imports	Stock With- drawal (+) or Addr- tion (-)	Unac- counted For Crude Out	Crude	Refinery Inputs	Exports	Products Supplied	Ending
Crude Oil (including lease condensate)	E 1,039,722	0	318,384	-39,679	29,082	235	1,320,496	18,972	7,806	683,550
Noticed Gas 1 tought and 1 DGs	187 526	34 889	25 834	14 437	c	c	53 200	13 204	105 223	00 740
1	30,320	500,45	100,02	777	o c	o c	21,017	03,61	7.064	5,540
(Jefostonstod Ottosm	20,20,0	o c	3	3750	o c	o c	15,17	0 0	,	2007.7
Disat Condensate	3,086) c	778	1010	o c	o c	3 868	c	οα	430
Tight Collections	153 252	34 889	24 821	16.698	o C		28,146	13 204	188 210	86 020
Ethana	30,444	1,509	5.577	810	o C	,	312	(s)	38,028	5,161
Probable	53.975	31.446	6.624	17.493	0 0	. 0	517	8.642	100 379	40.744
١,	24.769	1.819	6,040	-345	0	0	15.295	4,562	12,427	17.027
	741	8	2,348	999	0	0	795	0	3,043	1,457
Ethane-Propane Mixtures	31,873	0	4,232	-2,294	0	0	0	0	33,811	13,576
Isobutane	11,450	34	0	366	0	0	11,227	0	623	8,055
Other Liquids	5.568	O	25,588	-4.842	0	0	47,208	o	-20.894	152.664
Other Hydrocarbons and Alcohol		0	0	. 25	0	0	5,593	0	0	286
Ì	٥	٥	22,026	-8,823	0	0	24,608	0	-11,405	114,100
Motor Gasoline Blending Components	0	0	3,562	3,849	0	0	16,301	0	-8,890	37,893
Aviation Gasoline Blending Components	0	0	0	107	0	0	206	0	-599	385
Finished Petroleum Products	1.481	1.441.002	123.895	116.437	0	0	0	71.325	1.611.490	439.701
Finished Motor Gasoline	359	718,862	23,133	19,628	0	0	0	784	761,198	182,909
Finished Leaded Motor Gasoline	253	324,446	13,632	11,187	0	0	0	784	348,734	90,968
Finished Unleaded Motor Gasoline	106	394,416	9,501	8,441	0	0	0	o	412,464	91,941
Finished Aviation Gasoline	159	2,344	210	- 115	0	0	0	0	2,598	2,429
Naphtha-Type Jet Fuel	0	25,006	(8)	788	0 1	ο (0 1	500	25,594	6,401
Kerosene-Type Jet Fuel	y (96,048	2,608	-1,848	0 6	00	0	653	96,270	33,849
Kerosene	2	14,488	CC.	2,485)	> (.	4 6	069,71	/06.8 0
Distillate Fuel Oil	~ •	258,341	6,913	82,396	> •	-	9	11,533	336,124	103,183
Residual Fuel Oil	3 (CEU, VOT	75059	C16,12	5 (> (> (23,023	102,283	40,014
Naphtha < 400 Deg. for Petro. Feed. Use	0	15,949	1,4/1	6/2-	5	> (0	0.25	91,01	2,240
Consider Miss > 400 Deg. for reno, reed. Use	2 6	32,014	0 00	976	5 C	5 C	o c	595.	015,10 757 a	2,730
Ŧ	3	00031	CE0'1	3 6	• •	o c	,	1 847	47.74	10,559
LUDREBUIS	0	10,030	† †	970		o c		. a	4 750	36
Waxes	-	250,1	7	2 5	> <	o c	9 6	24 604	007.	017
Petroleum Coke	3 (47,104	2 6	103	-	> <	0 6	100,47	24,459	0,010
Asphalt and Road Oil	> c	37,330 305,03	3	-10,030	> c	-	-	<u> </u>	21,458 60 785	662,12
Still Gas	2 6	6,78	0 0,00	0 66	> 0	> 0	> <	۶	00,00	2 1
Miscellaneous Products	040	0/6'9	2,940	3/8	5	5	0	22	908'01	F6,1
Total	1,234,297	1,475,891	493,701	86,353	29,082	235	1,420,994	103,500	1,794,685	1,375,664

¹ Unaccounted for crude oil is a balancing item.
(s) Less than 500 barrels.
E = Estimated.

2

Note: Total may not equal sum of components due to independent rounding. Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 4. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, April 1983 (Thousand Barrels per Day)

			Nonis				Disno	Disposition	
Commodity	Field Produc- tron	Refinery Produc- tion	Imports	Stock With- drawal(+) Addr- tion(-)	Unac- counted For Crude Oil1	Crude	Refinery Inputs	Exports	Products Supplied
Crude Oil (including lease condensate)	≅ 8,686	0	3,154	-438	191	И	11,436	88	89
Natural Gas Liquids and LRGs	1.488	323	129	-108	c	0	396	116	1.320
Natural Gasoline and Isopentane	225	0	0	8	0	0	166		88
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	9	0	0	-59	0	0	m	0	(S)
:	ις	0	5	83	٥	0	39	0	(S)
Petroleum Gases	1,207	323	124	-107	0	o	198	116	1,232
Ethane	244	18	31	\$	0	0	ო	(s)	295
Propane	422	272	40	នុ	0 (0	ς. 2	88	672
Butano Dramana Maturas	202	72	32	g 9	ə c	0 0	50.5	2	4 Ծ n
Ethana-Program Michiga	0 550	0 0	3 0	S 4	o C	> C	ာင	> C	0.70
Sobutane	}	(S)	0	58	0	00	27	00	(s)
	;	•	1	;	•	•	į		:
Other Lightest and Market	7	•	270	01-	5	90	399	O 0	89
Cuter ayardancers and Arcond	. c	- C	0 878	90	0 0	0 0	- q	5 C	o a
Motor Gasoline Blending Components	o 0	0	3 %	82	> C	0	166	o c	2
Awation Gasoline Blending Components	0	0	0	က	0	0	-	0	N
				ij					
Finished Petroleum Products	4.	12,340	1,191	549	0	0 0	o (605	13,489
Finished Motor Casoline Finished Loaded Motor Casoline	חמי	0,198	273	11	> C) (-	- 1-	100.0 986.0
Finished Unleaded Motor Gasoline	V	3,382	106	16	00	. 0	,	• 0	3,505
Finished Aviation Gasoline	N	8	(S)	ო	0	0	0	0	58
Naphtha-Type Jet Fuel		189	(S)	35	0	0	0	7	214
Kerosene-Type Jet Fuel	(S)	792	15	35	0 (00	00	, (841
Netrosene	<u> </u>	2460	2 5	ν <u>τ</u>	- c	-	o c	(s)	0.21
Pearling Fire Oil		242	743	200	• 0	0	0	310	1.364
Naphtha < 400 Deg, for Petro Feed Use	۵۵	146	, (n)	1-	0	0	0	4	137
Other Oils > 400 Deg for Petro, Feed Use	0	286	(s)	14	0	0	0	ଷ	280
Special Naphthas	4	99	14	ကု	0	0	0	-	2
	0	140	5	15	0	0	0	23	139
Waxes	O	14	-	(S)	0	0	0	-	14
Petroleum Coke	0	381	0	T	Φ.	ο.	0	190	189
Asphalt and Road Oil	0	355	က	-98	0	0 (0	(S)	259
Still Gas	۰ م	512	0 ;	۰	0 0	0 0	0 0	o ,	512
Miscellaneous Products	4	4	3	4	5	>	>	_	n S
Total	10,229	12,663	4,744	2-	191	N	12,231	809	14,779

Unaccounted for crude oil is a balancing item.
 Less than 500 Barrels per day.
 E ≥ Estimated.
 Note. Totals may not equal sum of components due to independent rounding Sources and estimation procedures. See Explanation, Notes on Data Collection and Estimation.

Table 5. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-April 1983 (Thousand Barrels per Day)

			Supply				Disposition	Sthon	
Commodity	Field Produc- tion	Refinery Produc- ton	Imports	Stock With- drawal(+) Addi- tron(-)	Unac- counted For Crude	Crude	Refinery Inputs	Exports	Products Supplied
Crude Oil (including lease condensate)	E 8,664	0	2,653	-331	242	8	11,004	158	99
Natural Gas Irmide and BGs	1 563	100	140	65	ć	c	•	,	,
Natural Gasoline and Isonentane	936		613	021	3 C	5 C	44.4	2 '	959'L
Infractionated Steam	25.5	0 0	V C	t	- 0	> 0	62	ɔ (9
Plant Condensate	7 S	> c	ÞΨ	? "	> 0	> c	- 6	0	© :
initial Datalant Good	124	5 6	0 100	D C	5 (0	3 35	0 ;	(s)
Ethono	774	53.	202	2 2	o (> (233	פרר :	1,569
Dispersion	4 5	5 6	8 r	, ,,	o (5 (m ·	(S)	317
Pickers	000	20.5	ខ្លួ	140	5 (5	4	72	836
	202	ភ	2 :	·?	0	0	127	æ	104
Durane-richare Mixtures	۵ <u>۵</u>	 (2 2	(0)	0	Φ.	7	0	52
tath day	256	o (S	-13	0	0	0	0	282
Isobutane	92	(s)	0	m	0	0	26	0	ഹ
Other Liquids	46	c	213	9	c	c	303	c	
Other Hydrocarbons and Alcohol	46	· c) C	(s)	o c	oc	233	3 C	4 (
Unfinished Oils	2 0	o C	184	-74	> C	· c	t c	o c	> 6
	· c) c	; e	50	9 6	o c	404	o c	6
Aviation Gasoline Riemanno Commononte	o c		3	۲ ۲	> 0	> 0	92)	-/4
See	>	o ·	5	-	5	•	٥	0	ကို
Finished Petroleum Products	72	12,008	1.032	970	0	C	c	594	13.420
Finished Motor Gasoline	က	5,991	193	100	0	٥	0	^	6769
Finished Leaded Motor Gasoline	61	2,704	114	86	0	0	0	. ~	2.906
Finished Unleaded Motor Gasoline	-	3,287	62	70	0	0	0	0	3,437
Finished Aviation Gasoline	-	23	N	٦	0	0	0	0	8
Naphtha-Type Jet Fuel	0	208	(s)	7	0	0	0	~	213
Jet Fuel	(s)	800	22	-15	0	0	0	1 4	802
Kerosene Kerosene	(s)	121	9	21	0	0	0	(s)	147
Distillate Fuel Oil	<u>(s)</u>	2,153	28	687	0	0	0	96	2,801
Residual Fuel Oil	0	892	689	180	0	0	0	242	1,519
Naphtha < 400 Deg for Petro. Feed. Use	0	133	12	7	0	0	0	4	139
Other Oils > 400 Deg. for Petro, Feed. Use	0	272	(g)	₹ .	0	0	0	14	261
Special Naphthas	က	25	16	m	0	0	0	က	20
Lubncants	0	134	Φ.	4	0	0	0	15	131
Waxes	0	4	-	(s)	0	0	0	v-	15
Petroleum Coke	0	393	0	-	o	0	0	205	189
Asphalt and Hoad Oil	0	261	2	84	0	0	0	-	179
Stall Gas	0	202	0	0	0	0	0	0	205
Miscellaneous Products	¢.	28	52	က	0	0	0	*~	06
Total	10.286	12 200	4 114	720	242	•	11 841	050	14 050
	20-601				272	•	11,041	3	0001

Unaccounted for crude oil is a balancing item.
 Less than 500 barrels per day.
 E estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 6. PAD District I, Supply and Disposition of Crude Oil and Petroleum Products, April 1983 (Thousands of Barrels)

			Su	Supply				2	Constant		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tton (-)	Unac- counted For Crude Oil1	Net Receipts	Crude	Refinery Inputs	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 2,427	0	23,909	480	1,456	4,533	7	31,846	0		16.391
Natural Gas Liquids and LRGs	825	1,315	325	-85	c	1 927	•	ţ		' !	
Liquefied Petroleum Gases	572	1,315	293	-76	0	1,937	9 0	126	146	4,010 077.5	4,208 15,4
Cale Floadcise	253	0	ë	ရာ	0	0	0	35	0	240	<u>.</u> ₹ 4
Other Liquids	105	0	2,727	ğ	0	84	Ç	3 524	•	60	
Other Hydrocarbons and Alcohol	105	0	0	9	0		• 0	111	9 0	700	62,7
Motor Gooding Blood - American	0	0	2,165	81	0	8	0	2.926	00	708	42.050
Arighon Geration Blandan Control of	0 1	φ.	562	-156	0	٥	0	497	c	} ē	161
Avieuchi desonne prending Components	0	0	0	ſΩ	0	0	0	O	0	- 40	- C
Finished Petroleum Products	88	36,104	29,017	1,150	0	71.755	o	c	537	197 505	00000
rinshed Motor Gasoline	88	17,713	6,648	-5,229	0	44.473	c	• •	,	52 501	133,000
Finished Leaded Motor Gasoline	22	7,194	3,923	-2,995	0	18,080	0) C	10	25,05	040,00
Finished Unleaded Motor Gasoline	9	10,519	2,724	-2,234	0	26,393	c	o c	, c	007,00	81,12
rmisned Aviation Gasoline	0	83	_	62	0	121	0	o c	o c	204,	126,02
Naphtha-1ype Jet Fuel	0	325	0	593	0	555	0	0	c	1473	2 4 60
Kerosene-1ype Jei Fliel	0 (916	314	-338	o	9,370	0	0	(S)	10.262	9.406
Detilate Enel Oil	5 (402	296	17	0	379	0	0	<u>(8</u>	1.093	3 731
Residual Fuel Out	> c	7,368	1,958	6,303	0	13,865	0	0	2	29,491	31,809
Naphtha and Other Oils for Petrochem,	•	7000	19,034	455	0	1.622	0	0	(s)	24,852	20,271
Feedstock	0	364	9	21	0	55	c	,	é	Į	;
Special Naphthas	0	=	112	172	٥	295	o c	o C	, 0 0	, co	3 F
Lubricants	0	642	78	-67	0	478	0 0) C	2 6	790	390
waxes	0	94	ιΩ	8	0	m	0	c	1	2 6	204,0
Feroleum Coke	0	1,096	0	-159	0	0	0	c	100	9 6	109
Asphalt and Hoad Oil	0	1,945	62	-569	0	198	0	0		1 635	4 to a c
Authorities and the second sec	0	1,633	0	0	0	0	0	0	- c	2,5	- CO'17
miscellaneous Products miscellaneous Products	0	210	2	60	0	341	0	0	, E	553	335
Total	3,445	37,419	55,977	521	1,456	78.309	7	35 541	673	440.045	171 654
							•		;	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1001

1 Unaccounted for crude oil is a balancing item.
2 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
(s) Less than 500 barrels.
E Estimated.
Note: Total may not equal sum of components due to independent rounding.
Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation

Table 7. PAD District II Supply and Disposition of Crude Oil and Petroleum Products, April 1983 (Thousands of Barrels)

			0					č			
•			Aldding					DSD	Cisposidori		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude	Net Receipts	Crude Losses	Refinery Inputs	Exports	Products Supplied	Ending
Crude Oil (including lease condensate)	E 30,561	0	16,953	1,736	32,057	762	7	81,669	393	O	81,164
Natural Gas Liquids and LRGs	7,944	2,347	2,250	511	0	2,530	0	3,701	705	11,177	31,783
Liquefied Petroleum Gases	8,053 -109	2,347	2,250 0	-39 220	00	1,764 766	00	2,229	705 0	11,442	28,160 3,623
Other Liquids	411	0	743	-1,833	0	1.080	C	-406	c	807	29.314
Other Hydrocarbons and Alcohol	411	0	0	7	0	0	0	400	0	0	123
Unfinished Oils	0	0	640	-2,703	0	119	0	-2,467	0	523	20,644
Motor Gasoline Blending Components	0	0	103	861	0	196	0	1,641	0	284	8,446
Aviation Gasoline Blending Components	0	0	0	20	0	0	O	8	0	o.	101
Finished Petroleum Products	00	85,570	1,270	6,763	0	11,341	0	0	942	104,010	122,981
Finished Motor Gasoline	0	51,894	363	2,047	0	7,640	0	0	-	61,944	56,918
Finished Leaded Motor Gasoline	0	25,844	283	865	0	3,785	0	0	-	30,777	29,518
Finished Unleaded Motor Gasoline	0	26,050	80	1,182	0	3,855	0	0	0	31,167	27,400
Finished Awaton Gasoline	0	96	0	1 2	0	75	0	o	0	215	654
Naphtha-Type Jet Fuel	<u>۵</u>	855	0	ო	0	289	0	0	0	1,147	1,744
Kerosene-Type Jet Fuel	0	4,191	0	-334	0	897	0	0		4,754	7,244
Kerosene	0	- - -	0	266	0	÷	0	o	(s)	468	2,237
Distillate Fuel Oil	0	15,250	8	5,727	0	2,642	0	0	0	23,653	33,250
Residual Fuel Oil	0 (2,128	763	146	0	986-	٥	0	0	2,651	3,441
Naphtha and Other Oils for Petro Feed	0	486	48	8	0	34	0	0	ω	591	257
Special Naphthas	9	30.	32	6/	0	72	0	0	-	486	479
Lubricants	0	741	4	240	0	-7	0	0	÷	3 6 5	2,191
Waxes were manufactured and the second secon	0	45	•	4	0	0	0	Ö	-	4	80
Petroleum Coke	Φ	2,928	0	47	0	0	0	0	918	2,057	1,813
Asphalt and Road Oil	0	3,108	7	-1,545	0	234	0	0	N	1,802	12,507
Still Gas	0	3,211	0	0	٥	0	0	0	0	3,211	0
Miscellaneous Products	60	163	15	σ.	0	-164	0	0	23	88	166
Total	38,924	87,917	21,216	7,177	32,057	15,713	7	84,964	2,040	115,994	265,242

Unaccounted for crude oil is a balancing item.
 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
 Less than 500 barrels.
 Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

rable 8. PAD District III Supply and Disposition of Crude Oil and Petroleum Products, April 1983 (Thousands of Barrels)

			Sug	Supply				Diso	Disposition		
Commodity	Field Produc- tion	Refinery Produc- ton	Imports	Stock With- drawal (+) or Addi- ton (-)	Unac- counted For Crude Oil ¹	Net Receipts	Crude	Refinery Inputs	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 125,427	0	48,562	-13,773	-21,847	21,034	œ	159,371	0	24	483,173
Natural Gas Liquids and LRGs	32,672	4,629	371	-3,617	0	-3,731	ø	6,948	2,498	20,878	61,055
Liquefied Petroleum Gases	26,217 6,455	4,629 0	371	-3,061 -556	90	-3,840 109	00	2,865 4,083	2,498	18,953 1,925	51,654 9,401
Other Liquids	408	0	4,605	-1,558	0	-1,164	0	6,345	0	4,054	68,801
Other Hydrocarbons and Alcohol	408	0	0	4	ο.	0	0	412	0	0	112
Unfinished Oils	0	o :	4,605	-2,114	0	-203	0	4,066	0	-1,778	51,938
Motor Gasoline Blending Components Aviation Gasoline Blending Components	00	00	00	502 502	06	-961 0	o c	1,875 	00	-2,334 58	16,501
	, ;		' !	}	• •			•	,		
Finished Petroleum Products	299	173,528	3,595	4,474	0	-86,566	0	0	7,814	87,516	118,476
Finished Motor Gasoline	0	81,741	161	3,054	0	-53,734	۵	0	-	31,211	46,196
Finished Leaded Motor Gasoline	0	34,951	(s)	2,244	0	-22,715	0	0	11	14,469	21,982
Finished Unleaded Motor Gasoline	0	46,790	161	810	0	-31,019	0	0	0	16,742	24,214
Finished Aviation Gasoline	88	254	0	-57	0	-214	٥	٥	0	5	720
Naphtha-Type Jet Fuel	٥	3,016	0	12	0	-1,052	0	0	0 (1,976	2,488
Kerosene-Type Jet Fuel	+ (11,902	30	1,009	٥ (-10,984	0	D (0	1,958	10,705
Kerosene	י ני.	2,05/	264	225	3 C	17 184	90	ə c	<u> </u>	42,74	1,047 1,047
Residual Firel Oil	- 0	11.850	1.566	699-	φ	-1.509	00	0	3,391	7,847	13,419
	0	11,362	35	130	0	-94	0	0	627	10,806	3,063
Special Naphthas	109	1,234	245	-271	0	-374	0	0	59	914	1,752
Lubricants	0	2,403	(s)	250	0	-435	0	0	337	1,881	5,694
Waxes	0	213	18	o,	0	ę	0	0	10	227	446
Petroleum Coke	0	4,509	٥	38	O	0	o	0	3,390	1,157	886
Asphalt and Road Oil	0	3,746	0	-558	0	-432	0	0	©	2,755	4,229
Still Gas	0	7,207	O	0	0	0	0	0	O	7,207	0
Miscellaneous Products	117	928	1,270	32	0	-153	0	0	17	2,180	814
Total	158,806	178,157	57,132	-14,474	-21,847	-70,427	œ	172,664	10,312	104,364	731,505

Unaccounted for crude oil is a balancing item.
 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate
 Iso Less than 500 barrels.
 Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 9. PAD District IV Supply and Disposition of Crude Oil and Petroleum Products, April 1983 (Thousands of Barrels)

			(
_1.			SC	Supply				DISD	Disposition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude	Net Receipts	Crude	Refinery Inputs	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 16,929	٥	853	-15	-6,493	0	0	11,265	0	on.	16,169
Natural Gas Liquids and LRGs	2,161	126	399	-5	0	-736	0	384	-	1,511	1,157
Liquefied Petroleum Gases	785	126	276	-26	0	139	0	265	-	1,034	548
Other Products ²	1,376	0	123	82 -	0	-875	0	119	0	477	609
Other Liquids	ω	0	0	171	0	0	0	-260	0	439	5,339
Other Hydrocarbons and Alcohol	80	0	0	0	0	0	0	80	0	0	0
Unfinished Oils	0	0	0	-240	0	0	0	-767	0	527	3,014
Motor Gasoline Blending Components	0	0	0	411	0	0	0	499	0	88	2,325
Aviation Gasoline Blending Components	0	0	0	0	0	0	0	0	0	0	0
Finished Petroleum Products	19	11,531	13	464	0	-179	0	0	4	11,843	13,489
Finished Motor Gasoline	16	6,302	7	53	0	-229	0	•	0	6,149	5,556
Finished Leaded Motor Gasoline	1	3,993	7	-39	0	-188	0	0	O	3,788	3,631
Finished Unleaded Motor Gasoline	- -	2,309	0	35	0	7	0	a	0	2,361	1,925
Finished Aviation Gasoline	0	25	0	-10	0	18	0	0	0	33	29
Naphtha-Type Jet Fuel	0	311	Q	84	0	-138	0	0	0	257	259
Kerosene-Type Jet Fuel	0	624	٥	51	0	456	0	0	0	1,131	723
Kerosene	0	0	0	<u>۽</u>	0	0	0	φ.	0	9	53
Designate ruel Oil	5	2,811	4	515	0 (-286	0 (0	0 (3,044	2,751
Nachtha and Other Oils for Petro Feed	o C	6/3	<u>(</u>	Ŷ T) C	o c	o c	o c	۰ د) °	453 503
Special Naphthas	0	4	(s)	0	0	0	۰ <i>۵</i>	٥	1 ~	lσ	, C
,	٥	36	(s)	-14	٥	0	0	0	-	2	74
Waxes	0	11	_	C)	0	0	0	0	0	13	Y)
Petroleum Coke	0	238	0	<u>.</u>	0	0	0	0	(s)	187	882
Asphalt and Road Oil	0	477	0	-168	0	۵	0	0		309	2,677
Styl Gas	0	394	0	0	0	0	0	0	0	394	0
Miscellaneous Products	က	83	-	-	0	0	0	0	(s)	56	-
Total	19,117	11,657	1,265	566	-6,493	-915	0	11,389	ιĊ	13,802	36,154

1 Unaccounted for crude oil is a balancing item
2 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
(s) Less than 500 barrels.
E Eştimated.
Note: Total may not equal sum of components due to independent rounding.
Sources and estimation procedures: See Explanation Notes on Data Collection and Estimation.

Table 10. PAD District V Supply and Disposition of Crude Oii and Petroleum Products, April 1983 (Thousands of Barrels)

			JS.	Supply				Disp	Disposition		
Commodity	Field Produc- tion	Refirrery Produc- tion	Imports	Stock With- drawal (+) or Addi- ton (-)	Unac- counted For Crude Oll ¹	Net Receipts	Grude	Refinery Inputs	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 85,248	0	4,346	-598	542	-26,329	98	58,932	2,237	2,004	86,653
Natural Gas Liquids and LRGs	1,047	1,279	516	N	٥	0	0	9/9	138	2,029	1,546
Liquefied Petroleum Gases	594 453	1,279	516 0	9 =	00	00	00	465 211	138 0	1,776 253	1,494 52
	6	•	į		((•		•	150	
Other Liquids	587	-	77	2,384	9 0	5 6	3 (2,755	> c	u G	51,955
Unforced Dis	89 C	0	27	2.138	00	> 0	00	686	o c	176	25.454
Motor Gasoline Blending Components	0	C	C	835	0	0	o	466	0	369	6.460
	0	0	0	12	0	0	0	12	0	0	8
Finished Petroleum Products	0	63,474	1,845	3,604	0	3,649	0	0	8,868	63,704	50,955
Finished Motor Gasoline	0	28,305	1,024	872	0	1,850	0	0	24	32,027	17,599
Finshed Leaded Motor Gasoline	0	12,504	814	249	0	1,038	0	0	54	14,581	8,118
Finished Unleaded Motor Gasoline	0	15,801	210	623	0	812	0	٥	0	17,446	9,481
Finished Aviation Gasoline	0	220	0	48	0	0	0	0	0	268	568
;	0	1,162	(s)	269	0	346	0	0	200	1,578	1,525
Kerosene-Type Jet Fuel	٥	6,117	108	\$	0	261	0	0	17	7,113	5,771
Kerosene	0	99	Φ	2	0	٥	٥	0	(6)	138	269
Distulate Fuel Oil	0	8,535	184	1,764	0 (963	0 (0 0	1.406	10,040	9,350
Needly and Ottor Oils for Both Food	-	10,632		- 501- 502-	9 6	, or	~ C	> C	0,2e,c	768	9,030 640
Special Naphthas	• 0	138	. 1	ස දි	0	~	0			96	325
	0	388	72	42	0	-32	0	0	78	392	1,292
	0	63	ო	ዋ	0	0	0	0	ന	53	70
Petroleum Coke	0	2,647	C	8	0	0	0	0	1,203	1,534	2,293
Asphalt and Road Oil	0	1,382	11	104	0	0	0		σO	1,281	1,995
Still Gas	0	2,929	0	C	0	0	0	0	0	2,929	o
Miscellaneous Products	0	146	80	22	0	-24	0	0	4	184	228
Total memmeratura	86,584	64,753	6,734	5,992	542	-22,680	36	62,363	11,243	68,282	171,109

Unaccounted for crude oil is a balancing item.
 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
 Less than 500 barrels

 Estimated

 Note Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collector and Estimation.

Table 11. Production of Crude Oil (including Lease Condensate) by PAD District and State, for the Most Current Available Month, February 1983 (Thousands of Barreis)

PAD Desiret and State Proof-core Page	and state, for the most current Available month, ' repruary 1983	nm, rebruary	363		Production	cpou
PAD Detrot and State Total Average Page Cobract IV Cobract	(Thousands of Barrels)			PAD District and State		
PAD Delatrict and State Total		Produc	pou			Average
1.75 Averages Av	PAD District and State	Total	Daily	PAD District IV		į
1757 1767			Average	Mortana	7.50	\$ 6
Particle E E E E E E E E E	ALL DESCRICT	1 767	8		E 1 797	0
Adjustment 2 2.30	***************************************	,/0/,π	3 °	Wyomina	E 8 974	2 2
Page	***************************************	200	v \$	Adristment 2	5	, "
PAD Detrict V Passes Pas	dinisylvatila	- 320		Total PAD District IV	E 15.462	1,5
North Steps	/ aynua	4 020			201	4
Desired I E 2389 South Assista South Assista 640 16 Total Alaska ————————————————————————————————————	VEST VIIII RA	R 9	ח פ	PAD District V		
North Stope Carlot Castal Castal Castal Castal Castal Castal Castal Castal Ca	Total PAD District I	E 2 330	? &	Alaska		
Adjustment for Massed Adju			3	South Alaska	2,004	72
Total Alaxie Tota	D District II			North Stope	46,070	1,645
15 15 15 15 15 15 15 15	BOB.	2319	8	Adjustment for Alaska2	523	80
Second Continued Continu	diana	450	16	Total Alaska	E 48,303	1,725
Central Constall E 5 9 0 0 0 0 0 0 0 0 0	Sesue	5.462	195	Arzona	2	_
East Central Coestal E151 9 Central Central E151 Petrol Petrol Petrol Petrol Central E151 E2 Central E151 E2 Central E151 E2 Central E151 Central E151 Central E151 Central E151 Central E151 Central E151 Central C	entucky	649	S	California		
E		2.514	8	Central Coastal	5,873	210
South Sout		i S	•	***************************************	18,853	673
1.25 1.25		503	· œ		*	-
Total California 19,337 476 Noveda 19,337 1,033 United States Total 1,035 States	orth Dakota	2 083	5 5	thos.	6,082	217
1,117 470 Newada 2 2 2 2 2 2 2 2 2	det bandia	202,4	74.	Total California	30.822	1 101
13.37 4/6 Adjustment for Arizona, California, and Nevada? 19.39 4/6 Adjustment for Arizona, California, and Nevada? 1.607 1.60	(R) 1.000.000.000.000.000.000.000.000.000.0	711,12	04	Nonda	18	
Particle	Капота шитинительный полительный полительны	13,337	476		27.4	1 %
District	outh Dakota	68	က		F 70 967	2 852
1,511 54 1,037 1,033 1,041ed States Total	ennessee	92	m	CUERTAGE LABERAL T	00,0	7,00,7
1,033 Utilded States 1024	djustment 2	-1,607	-57	Total Action Takes	107 070 1	0000
1,511	Total PAD District II	E 28,913	1,033	Chited States total	- 242,401	0000
1,511				1 Indiades the following affebore production (thousands of has	male).	
1,311 54 1,718 54 1,718 55 56 1,274 57 57 57 57 57 57 57		,	1	Alacka 1771		
1,446 52 52 54 1,178 2,670 55 5,664 1,274 2,418 86 5,764 2,418 86 5,764 2,664 1,274 2,418 86 5,764 2,06 5,764 2,06 2,764 2,06 2,764 2,06 2,764 2,66 2,764 2,66 2,6	AUGUST	110,1	\$ 1	California Federal, 2.343 State, 2.991:		
E 32,994 1,178 2,670 95 2,418 86 2,418 86 1,274 2,418 86 1,274 2,418 86 1,274 2,418 86 1,274 2,618 1,934 69 69 69 69 69 69 69 6	-,	T 1,445	20	Comeiana Edderal E 21 702 State, 1 702		
1,178	Oustana			Tover Endors F 1615 State 138.		
Color	Gut Coast	E 32,994	1,178	110 Total 33 443		
1,274 1,27	Rest Of State	2,670	95		000	
2,418 86 492 18 5,272 188 500 5,764 206 601 1,934 69 (8) 602 3,039 109 E 603 3,039 109 604 653 23 605 653 23 607 664 631 606 684 637 607 684 637 608 637 609 637 609 637 609 637 609 637 609 637 609 637 600 637	otal Louisiana	E 35,664	1,274			
18 5.272 18 5.272 18 5.272 188 5.764 206 5.764 206 5.764 206 5.764 206 5.764 206 5.764 206 5.764 206 5.764 206 5.764 206 2.728 207 2.728 2.7		2,418	8	level sums of the ordice data with the interpretation of the		
100 1,934 69 101 1,934 69 102 3,039 109 103 10,285 367 104 2,160 77 104 2,160 77 105 2,160 77 107 2,581 92 107 2,581 92 108 2,728 97 108 17,848 637 106 1,510 54 10 1,510 54 10 1,510 2,523 10 1,510 2,523 10 1,510 2,523 10 1,510 2,523 10 1,510 2,523 10 1,540 2,523 10 1,540 2,523 10 1,540 2,523 10 1,540 2,523 10 1,540 2,523 10 1,540 2,523 10 1,540 2,523 10 1,540 2,523 10 1,540 2,523 10 1,540 2,523 10 1,540 2,523 10 1,540 2,523 </td <td>ew Mexico</td> <td></td> <td></td> <td>U.S. and Alaskan ligures shown in the Summary States of</td> <td>50.5</td> <td></td>	ew Mexico			U.S. and Alaskan ligures shown in the Summary States of	50.5	
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04 2.160 05 653 065 1078 2.160 078 2.301 070 2	TRRC District 03	10,285	367	E = Estimated.		
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E 70,650 -1,544	East Texas	3,990	5			
1,544 000 300 3		E 70,650	2,523			
000 344 3	diustment 2	-1.544	iş,			
	Total DAD District III	F 115 909	4.140			

... Natural Gas Processing Plant Production of Petroleum Products by PAD District, ¹April 1983 (Thousands of Barrels)

1, r 1, 1,

	PA	PAD District	1		PA	PAD District	=				PAD Dist	District III			PAD	PAD	
Commodity	East Coast	Appala- chian #1	Total	Appala- chian #2	Ind., III., Ky.	Minn, Wisc., Daks.	Okta. Kans. Mo.	Total	Texas	Texas Gulf Coast		No La.	New Mexico	Total	Dist IV Rocky Mt.	Vest Coast	United
		į	į	•	0,00	į	8		4	200	6	1		0.00			44.
Natural Gas Liquids	200	4/2	020	יי	1,948	40A	2,034	440.	18,355	10,5	1,122	g	3,414	35.072	וסריצ		44,044
Natural Gasoline and Isopentane	4	8	22	0	62	74	1,059	1,195	1,997	1,237	1,157	35	300	4,787	311		6,750
Unfractionated Stream	37	138	175	ო	760	8	-2,263	-1,418	9,016	-9,952	298	8	2,050	2,056	926		1,843
Plant Condensate	٥	0	0	0	46	ន	45	114	ຮີ	100	ଛ	17	40	-388	109		-165
Liquefied Petroleum Gases	272	300	572	0	1,080	280	6,693	8,053	7,112	12,393	5,347	252	1,113	26,217	785		36,221
:		158	158	0	450	0	1,016	1,466	702	2,863	1,985	35	66	5,684	52		7,333
Propane	164	95	259	0	4	171	2,507	3,128	2,252	3,763	1,795	108	498	8,416	498		12,647
Butane	9	8	121	0	94	89	946	1,129	1,307	2,045	702	8	260	4,379	246	199	6,074
Σ	0	0	0	0	-	0	ထ	O	\$	41	-	12	0	108	=		163
Ethane-Propane Mixtures	0	0	0	٥	33	0	1,824	1,863	2,227	2,413	327	0	170	5,137	0		7,003
Isobutane	17	17	8	0	25	14	392	458	570	1,268	537	32	98	2,493	t)		3,001
Finished Petroleum Products	88	0	88	0	2	0	9	80	287	2	0	9	4	58 28	19	0	414
Finshed Motor Gasoline		0	88	0	0	0	0	0	0	0	0	0	0	0	16	0	\$
Finished Leaded Motor Gasoline	21	0	24	0	0	0	0	0	0	0	٥	0	0	٥	15	0	72
Finished Unleaded Motor Gasoline		0	31	0	0	0	0	0	0	0	0	0	0	0	-	0	32
Finished Aviation Gasoline	0	0	٥	0	0	0	0	0	88	0	0	0	0	8	0	0	8
Naphtha-Type Jet Fuel		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kerosene-Type Jet Fuel		0	0	0	0	0	٥	0	0	0	0	•	0	-	0	0	-
Kerosene		0	0	0	0	0	0	0	-	0	0	0	N	e	0	0	ო
Distillate Fuel Oil		0	٥	٥	٥	0	٥	0	0	0	0	-	0	-	0	0	-
Special Naphthas	0	0	0	0	0	0	0	0	109	0	0	0	0	109	0	0	109
Miscellaneous Products		0	0	٥	8	0	9	œ	109	8	0	4	7	117	က	۵	128
Total Dead despise	444	472	013	c	1 050	450	5 540	7 052	18 643	2.010	7 199	710	3 476	32 970	2 180	1 047	45.069
	Ē	1	2	•	2	2	2	100	2	2	1	2		25,0		5.	300

1 Production represents quantity of natural gas processing plant output less input to fractionaling facilities. Source: See Explanatory Notes on Data Collection and Estimation.

Table 13. Refinery Input of Crude Oil and Petroleum Products by PAD District, April 1983 (Thousands of Barrels, Except Where Noted)

	d .	PAD Distric		Appala-		PAD District II	okta			Toyas	PAD District	strict III			PAD Det IV	PAD	- Indian
Commodity	Coarst East	chian #1	Total	fg #2	ii, Ky.	Wisc., Daks.	Kans,	Total	Texas	Gulf	Gulf Coast	No. La Ark	New	Total	Rocky	West	States
Crude Oil (including lease condensate) 29,508	29,508	2,338	31,846	1,357	53,681	7,065	19,566	81,669	14,133	82,286	55,455	5,374	2,123	159,371 11,265	11,265	58,932	343,083
Natural Gas Liquids	;			(
Natural Gasoline and Isopentane	32	0	32	0	449	124	793	1,366	873	1,923	336	20	106	3,288	42	211	4,979
Untractionated Stream	0	0	0	0	0	0	0	0	0	0	8	0	0	8	0	0	88
Plant Condensate	0	0	0	0	8	0	2	106	0	513	0	196	*	710	4	٥	856
Liquefied Petroleum Gases	13	5	126	4	1,465	176	35	2,229	332	938	1,473	2	88	2,865	265	465	5.950
Ethane	0	0	0	0	0	٥	0	0	0	0	83	0	0	66	e	0	8
Propane	0	0	0	0	4	0	0	43	0	2	92	0	0	22	7	R	151
Butane	0	ŭ	5	5	748	5	219	1,120	S	769	847	2	4	1.685	125	316	3.259
Butane-Propane Modures	0	0	0	0	-	0	0	-	ιO	8	168	0	O	216	80	0	298
Ethane-Propane Mixtures	0	0	0	0	0	0	0	0	0	0	0	0	0	0	· C	· C	
sobutanesobutane	113	0	113	30	673	36	326	1,065	264	133	289	82	22	793	49	126	2,146
Offine Liquids	,	•	;	•		•	;		,								
Unfinished Oil (net)	2,885	0 4	111	4 0	379	o 9	-549	-2467	ဝ ဖွ	8 8 8 8 8	5 50	٥ ۾	0 5	412	8 727	588	1219
Motor Gasoline Blending	}	•	2	F		f	3	(t'y	3	6,600	ţ.	8	3	99,	0/1	606.	0,/4/
Components (net)	456	4	497	7	456	169	1,014	1,641	-382	1,295	986	-26	αı	1,875	499	466	4,978
Components (net)	0	0	0	0	88	٥	۴	23	0	ማ	ъ	0	0	ዋ	0	4	22
Total Input to Refineries	33,108	2,433	35,541	1,443	54,635	7,494	21,392	84,964	15,042	89,423	60,043	5,786	2,370	172,664	11,389	62,363	366,921
Crude Oil Distillation Gross Input (daily average)	1,001	78	1,079	84 8	1,827	250	660	2,784	488	2,823	1,866	189	۲ څ	5,438	388	1,974	11,664
Operating Ratio (percent)1	68.0	44.8	65.5	72.8	77.7	84.7	77.3	78.1	79.7	69.5	6,49	64.4	67.7	68.4	69.2	63.5	69.3
Crude Oil Qualities Sulfur Content, Weighted Average fnement)	5	7.7	ğ	7	6	8	Ū	ď	2	S	ă	3	p	g	8	8	ě
API Gravity, Weighted Average	29.38	42.01	30.30	37.01	31.30	26.38	37.49	32.44	37.93	31.96	34.05	30.38	39.60	33.28	32.11	25.71	31.47
Operable Capacity (daily average) Operating	1,473 1,283 190	45 4 8 8	1,647 1,388 259	တ္ထိ ထို ဝ	2,351 2,191 160	235	85 757 86	3,565 3,309 256	612 559 53	4,061 3,498 563	2,877 2,228 648	242 242	90 <u>1</u> 0	7,949 6,633	521 521	3,110	16,832 14,622
	:	;		•		•	;		}	*	,	}	>)	3	}	> 10/19

1 Represents gross input divided by operable capacity. Note: Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collection and Estimation.

43

Table 14. Refinery Production of Petroleum Products by PAD District, April 1963 (Thousands of Barrels)

	PA	PAD District			PA	PAD District	200				PAD District	strict III			PAD	PAD	
Commodity	East	Appala- chian #1	Total	Appala- chian #2	ind, III. Ky.	Minn., Wisc., Daks.	Okta., Kans., Mo	Totai	Texas	Texas Gulf Coast	Gulf Coast	ei ,	New Mexico	Total	Dist IV Rocky Mt.	Dist. V West Coast	United
Liquefied Refinery Gases	1,292	ន	1,315	93	1,610	360	447	2,347	197	2,565	1,716	23	78	4.629	126	1,279	9696
For Petrochemical Feedstock Use	88	0	88	0	217	Ø	33	265	8	976	ន្ត	8	0	1,248	Ϋ́	324	2,165
For Other Uses	929	ន	987	ဓ	1,393	গ্ন	408	2,082	፳	1,589	1,496	22	78	3,381	131	955	7,531
Ethane		0	13	0	0	0	0	0	0	S S	4	0	0	3	0	٦	25
For Petrochemical Feedstock Use	0	0	0	0	0	0	0	0	0	181	0	0	٥	181	0	٥	181
For Other Uses	5	0	13	0	0	0	0	0	0	340	4	0	0	353	0	٦	365
Propane	1,142	ន	1,165	ဓ	1,614	224	472	2,340	194	2,091	1,405	\$	43	3,776	137	730	8,148
For Petrochemical Feedstock Use	322	0	322	0	217	0	8	256	8	828	143	0	0	1,036	O	187	1.80
For Other Uses	820	ន	8	30	1,397	224	<u>\$</u>	2,084	3	1,232	1,262	£	\$	2,740	137	543	6,347
Butane	137	0	137	0	ΨŶ	88	-53	ø	ო	-195	308	88	32	159	*	496	805
For Petrochemical Feedstock Use	Ξ	0	Ξ	0	0	6	0	6	0	-79	11	18	0	16	0	137	173
For Other Uses	126	0	2 2	0	Ŷ	27	-25	ማ	က	-116	8	₽	18	143	4	329	6 <u>7</u>
Butane-Propane Mixtures	0	0	0	0	***	0	0	•	0	124	8	7	17	145	유	Ŋ	98
For Petrochemical Feedstock Use	0	0	Ö	0	0	0	0	0	0	0	0	0	0	0	0	0	0
For Other Uses	0	0	0	0	**	0	0	-	0	124	N	N	17	145	9	Z	6
Isobutane for Petro. Feed Use	0	0	0	0	0	0	0	0	0	15	0	0	0	15	'n	0	2
Finished Motor Gasoline	16,762	951	17,713	885	33,566	4,342	13,104	51,894		41,854	29,530	1,668	8	81.741		28,305	185,955
Finished Leaded Motor Gasoline	6,769	425	7,194	485	15,062	2,493	7,804	25,844		16,814	13,026	942	208	34,951		12,504	84,486
Finished Unleaded Motor Gasofine	9,993	526	10,519	397	18,504	1,849	5,300	26,050	4,057	25,040	16,504	726	₹	46,790	2,309	15,801	101,469
Finished Aviation Gasoline	R	0	R	0	1	0	0	88		117	138	0	0	254		22	809
Naphtha-Type Jet Firei	28	4	325	15	430	8	314	822		1,175	403	244	455	3,016		1,162	5,669
Kerosene-Type Jet Fuel	916	0	916	109	3,071	387	624	4,191		5,071	5,982	4	4	11,902		6,117	23,750
Kerosene	375	27	405	0	124	R	88	±83		1,165	867	2	-19	2,057		8	2,710
	6,806	282	7,368	245	8,796	400	4,809	15,250		16,419	9,541	1,502	622	31,106	2,811	8,535	65,070
Residual Fuel Oil	3,199	<u>इ</u>	3,362	36	1,612	217	æ	2,128		6,313	4,445	450 02	¥	11,850		10,632	28,247
Naphtha < 400 Deg. For Petro, Feed. Use	358	0	328	٥	7	0	8	<u>ස</u>		2,631	407	ଷ	0	3,778		152	4,391
Other Oils > 400 Deg. For Petro. Feed. Use	6	0	ဖ	0	382	0	~	88		3,990	3,560	8	0	7,584		292	8,566
Special Naphthas	-	2	F	0	147	0	<u>7</u>	ဗ္ဂ		105	প্ত	148	0	<u> </u>		8 8	1,588
Lubricants	280	362	642	0	462	0	279	741		1.464	8	88	0	2,403	8	388	4,210
Waxes	2	73	ま	0	18	0	27	45		2	8	<u>6</u>	0	213		6	424
Petroleum Coke	1,080	9	1,096	ន	1,921	윷	*	2,928		2,395	1,775	B	₽	4,509		2,647	11,418
Marketable	372	0	372	0	1,138	189	471	1,798		1,138	1,002	8	0	2,249		2,032	6,554
Catalyst	708	\$	724	R	783	=======================================	213	1,130		1,257	773	17	0	2,260		615	4,864
Asphalt and Road Oil	1,900	45	1,945	g	1,890	717	\$	3,108		629	1,396	1,055	87	3,746		1,382	10,658
Still Gas	1,552	8	1,633	8	2,100	252	801	3,211		4,544	2,059	<u>ଛ</u>	47	7,207		2,929	15,374
For Petrochemical Feedstock Use	523	0	82	٥	8	0	0	N	4	455	=======================================	0	0	570	£	116	927
For Other Uses	1,323	∞	4.	28	2,098	252	8	3,209		4,089	948	3	47	6,637		2,813	14,447
Miscellaneous Products	176	중	210	က	8	23	53	<u>8</u>		492	319	4	0	828		146	1,469
Fuel Use	σ	19	83	0		0	13	7	0	0	277	0	0	277	က	27	348
Non-Fuel Use	. 167	15	182	က	\$	8	\$	149	92	492	42	4	0	651	19	119	1,120
Total Production	35,028	2,391	37,419	1,494	56,298	8,016	22,109	87,917	15,091	91,987	62,829	5,844	2,406	178,157	11,657	64,753	379,903
Processing Gain(-) or Loss(+)1	-1,920	42	-1,878	দ	-1,683	225	-717	-2,953	Ŷ	-2,564	-2,786	ξ,	8	-5,493	-768	-2390	-12,982

Represents the arithmetic difference between input and output.

Note: See Explanatory Note on negative production.

Source: See Explanatory Notes on Data Collection and Estimation.

Table 15. Percent Refinery Yield of Petroleum Products by PAD District, 1 April 1983

	/d	PAD District I	t l		Ь	PAD District	11 11				PAD District	stnct III		Γ	PAD	PAD	
Commodity	Fact	Appala-		Appala-	Ž	Minn.	Okla,		Towns	Texas	व	No. in	N.Com.		Dist, IV	Dist. V	United
	Coast	chian #1	Total	chian #2	III, Ky.	Wisc., Daks.	Kans. Mo	Total	inland	Gulf	Gulf	Ark.	Mexico	Total	Rocky Mt.	West	States
	49.5	37.7	48.7	59.9	59.4	55.1	56.4	583	48.1	437	46.4	249	398	444	51.5	4	48.1
Finished Avation Gasoline3	٠.	o,	۳.	o.	۳.	0	-	۳.	ó	۳.	ო	0	o,	κi	8	ωį	ņ
Liquefied Refinery Gases	4.0	5.	3.8	2,	3.1	3.7	2.4	3.0	4.	3.0	3.0	1 3	3.5	28	1.2	2.1	28
Naphtha-Type Jet Fuel	o.	1.8	οί	Ξ:	αį	1.4	1.7	1.1	5.2	1.4	۲.	4.5	20.5	8	30	6.	16
Kerosene-Type Jet Fuel	28	۵	5.6	7.8	59	5.5	3.3	5.3	57	6.0	105	۲.	18	7.3	5.9	10.0	6.8
Kerosene	1.2	=	1,2	0	οį	ကဲ	N	иį	က	1.4	15	oʻ	6	س	0	-	æί
Distrilate Fuel Oil	210	23.6	21.2	17.5	17.0	199	253	19.3	213	19.4	168	27.4	280	19.0	268	140	18.7
Residual Fuel Oil	6.9	6.9	9.7	56	31	3.1	14	2.7	43	7.5	7.8	7.7	24	7.3	5.6	17.5	8 1
Naphtha < 400 Deg. F. Petro. Feed Use	77	0	O.	0	0	0	ιų	-	5.1	3,	7:	4	0	23	0	ςį	13
Other Oils > 400 Deg. F. Petro. Feed Use	O,	0	o,	0	7	0	o.	S	0	47	6.3	9	0	46	o.	0:	2.5
Special Naphthas	o,	4	o.	0	ო	0	œί	4	o,	12	o,	27	0	00	o.	κį	Ŋ
Lubncants	œ.	152	1. 8.	0	οį	0	7.	თ	Τ.	17	1.1	5.9	0	70	e.i	Ó	12
Maxes Sexew	τ-,	34	ω	٥	٥	٥	.1	~	o.	۲.	۲.	1:1	0	٠	Τ,	۳.	۲.
Petroleum Coke	3.3	7	32	1.6	3.7	4.3	3.6	3.7	1.9	28	3.1	12	₹.	28	23	4.3	3.3
Asphalt and Road Oil	9	6.	26	6.7	3.7	10.2	21	3.9	39	æ	2.5	19.2	3.9	23	4,5	2.3	3.1
Still Gas	4.B	3.4	47	4.1	4.	36	42	4.1	5.6	5.4	3.6	3.3	2.1	4.4	3.8	4.8	4
Miscellaneous Products	Ŋ	4.	φ	κį	ભ	က	ωį	κį	വ	œ.	œί	۲.	0	ø.	εń	બ	4.
Processing Gain(-) or Loss(+)45.9	-5.9	1.8	-5.4	3.6	-3.2	-7,4	-38	-3.7	₁	-30	4 9	1.7	-16	-3.4	-26	-3.9	-37
The state of the s																	

Based on crude oil input and net reruns of unfinished oils.
 Based on total finished motor gasoline output plus net output of motor gasoline blending components, minus input of natural gas plant liquids, other hydrocarbons and alcohol.
 Based on finished aviation gasoline output plus net output of aviation gasoline blending components.
 He persents the difference between liput and Production.
 Note: Totals may not equal sum of components due to independent rounding.
 Note: See Explanatory Note on negative production.
 Source: See Explanatory Notes on Data Collection and Estimation

Table 16, Imports of Crude Oil and Petroleum Products by PAD District, April 1983 (Thousands of Barrels)

Algoritos						
	-	=	=	2	>	Total
Crude Oil (including lease condensate) 1.2	23,909	16,953	48,562	853	4,346	94,623
Natural Gas Liquids	325	2,250	371	399	516	3,860
Natural Gasoline and Isopentane	0	0	0	0	0	0
Plant Condensate	31	0	0	123	0	154
Liquefied Petroleum Gases	293	2,250	371	276	516	3,706
Ethane	O	626 6	0	٥	0	923
Propane	528	770	0	178	259	1,466
Butane	\$	557	0	98	257	946
Butane-Propane Mixtures	0	0	371	0	0	371
Ethane-Propane Mixtures	c	٥	0	0	0	0
Other Liquids 1	2.727	743	4.605	0	27	8.102
	2,165	940	4.605	0	27	7,437
Motor Gasoline Blending Components	562	103	0	0	0	999
Avation Gasoline Blending Components	0	0	0	0	0	0
Inished Petroleum Products	29,017	1.270	3,595	13	1,845	35,739
Finished Motor Gasoline	6,648	363	161	7	1,024	8.203
Finished Leaded Motor Gasoline	3,923	283	(s)	۲	814	5,028
Finished Unleaded Motor Gasoline	2,724	8	161	o	210	3,176
Finished Aviation Gasoline	+-	0	0	0	0	_
Naphtha-Type Jet Fuel	0	0	0	٥	(8)	S
Kerosene-Type Jet Fuel	314	01	ဓ	0 (108	453
Bonded Arcraft Fuel minimum memorine memorine and property of the contract of	0 7	0 0	0 8	÷ (2 6	2
Und	206	9 6	264	o C	9 0	5 55
ind Di	1 958	9.6	ď	•	184	9 185
Bonded Ships Bunkers	0	50	0	0	0	1
	1.958	34	ı.co	4	184	2,185
Residual Fuel Oil	19,534	763	1,566	Ô	420	22,284
Bonded Ships Bunkers	0	0	0	0	0	0
Other	19,534	763	1,566	(s)	420	22,284
Deg. for Petr	9	46	35	0	0	87
Other Oils > 400 Deg. for Petro Feed. Use	0	2	0	0	0	2
Special Naphthas	112	32	245	(s)	15	407
Lubneants	78	4	(S)	(s)	72	<u>당</u>
Waxes	2	-	18	0	ი :	名 :
Asphalt and Road Oil	62	7	0	0	-	8
Miscellaneous Products	'n	\$	1,270		œ	1,298
						1

Crude oil and unfinished oils are reported by the PAD District in which they
are to be processed; all other products are reported by the PAD District of entry
2 includes crude oil imported for storage in the Strategic Petroleum Reserve
(s) Less than 500 barrels.
 Note: Total may not equal sum of components due to independent rounding.
Sources: See Explanatory Notes on Data Collection and Estimation.

Table 17. Imports of Crude Oil and Petroleum Products by Source and PAD District, April 1983 (Thousands of Barrels)

	<u>Q</u>	LPG	Shed Oils	Blending Compo- nents	Motor Gasoline	Jet Fuel	Kero- sene	Puel Puel	Fuel Oil	Special Naphthas	Prod-	Prod- ucts	Petro- leum	(Daily Average)
							All PAD	Ali PAD Distncts						
Arab OPEC Algeria	5,281	0	0	0	0	0	0	360	1,205	0	0	1.564	6.845	228
Saudi Arabia	5,412	0	0	0	0	0	0	0	0	0	0	0	5,412	186
United Arab Emirates	-	0	0	0	0	0	0	0	0	0	0	0	-	છ
Subtotal Arab OPEC	10,694	0	0	0	0	0	0	360	1,205	0	0	1,564	12,258	409
Other OPEC														
Ecuador	1,745	0	0	0	0	0	0	0	0	0	0	C	1,745	67
Gabon	2.000	0	0	0	0	0	0	0	0	٥	0	0	2.000	6
Indonesia	5,597	0	0	0	155	18	0	-	8	0	485	693	6,290	210
Nigeria	5,593	o	0	0	0	0	0	0	0	0	0	0	5,593	186
	4,575	0	814	119	1,026	0	512	326	7.617	0	256	10.670	15.245	205
Subtotal Other OPEC	19,510	0	814	119	1,181	18	512	327	7,650	0	741	11,362	30,873	1,029
office of the second														
Angola	3.059	0	C	0	0	0	C	c	0	c	c	c	9.050	Ş
Australia	0	0	0	0	0	0	0	0	0	0	(5)	(S)	(8)	(S)
Bahamas	0	0	2,389	263	0	0	48	395	1.412	0	491	4.998	4.998	99
Brazil	0	٥	٥	0	254	0	0	0	999	٥	O	923	923	Ċ
Canada	7,386	3,335	173	103	631	37	0	265	1,239	133	252	6,168	13,554	45.
Congo	1,232	٥	0	0	0	0	o	0	176	0	4	181	1,413	4
France	0	0	0	0	0	0	0	(<u>s</u>)	0	0	(s)	(8)	(s)	(S)
Mexico	28,489	371	0	0	(s)	8	0	18	498	-	\$	934	29,423	86
Netherlands	320	0	0	0	2,210	0	0	0		96	0	2,307	2,657	ãó
Netherlands Antilles	0	0	1,772	o	0	0	0	0		0	9	6,494	6,494	ž
Norway	5,660	0	0	0	0	۵ (0	0		0		0	5,660	₩.
People's Hepublic of China	0 0	00	9 0	ם מ	818 818	00	0 0	0 0		0 ((S)	818	818	i io
Peru Dien))	> 0	÷	> 0	>	> 0	> 0	> 0		9 0	2 2	2,4	2 c	Ñi ₹
ruello mod	o c	o c	3	o c	3 5	5 C	o c	> c		60	0 0	3 6	9 6	จี ถ้
Companie	9	o c	> C	o c	1 10	> C	> C) C	> C	o c	> C	3 1	2 4	ν.,
Trinidad and Tobaco	2307	0 0	37	0	3 0	0	0	• •		0	7.	255	2.562	ć
Tunisia	498	0	0	0	0	0	0	0		0	0	0	498	-
United Kingdom	12,607	0	0	0	0	0	0	0		0	36	36	12,643	42
Virgin Islands	0	0	1,180	0	1,126	314	0	701	2,169	0	0	5,490	5,490	<u>~</u>
Yugoslavia	0	0	179	0	0	0	0	o		0	0	179	179	•
Zaire	640	0	0	0	0	0	0	0	0	0	0	0	640	23
Other Western	ţ	•	•	c	•	•	•	•	100	ć	•	363.	070	č
Hemisphere	5/1	0	5 6	,) i		0 0	9	200	1 0	0 6	0,000	0,0	ŏç
Other Eastern Hemisphere	629	0 400	7.58	6/1	3 2 2	ខ្ល	-	200	787	101	7 00 1	2,301	040,00	151
Subtotal Other	64,419	3,70	6,623	8	520,7	3	6	064,	5,473	407	9	0.2.45	<u>n</u>	DO.
Total Imports	94,623	3,706	7,437	999	8,203	453	560	2,185	22,284	407	1,802	47,702	142,325	4,744

Table 17. Imports of Crude Oil and Petroleum Products by Source and PAD District, April 1983 (Continued)

(Panillinea)														
Source	Crude Oil 1	БР	Unfin- ished Oits	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Distil Fuel Oil	Resid. Fuel Oil	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
]	PAD	PAD District I						
Arab OPEC														
Algena Saudi Arabia	1,846	00	00	00	00	00	00	360	683	0	0	1,043	2,889	96
Subtotal Arab OPEC		0	00	00	00	9 0	00	360	683	00	00	1,043	1,806 4,695	6 157
Other OPEC														
Gabon	1,281	0	0	0	0	0	0	0	0	0	0	0	1.281	43
Indonesia	1,292	0	0	0	0	0	0	0	0	0	0	0	1,292	. .
Nigera Venezuela	1,757	00	00	O	0 900 +	00	0 5	0 0	0	0		0	1,757	23
Subtotal Other OPEC	6,538	0	0	100	1,026	0	24.8	328	7,267	00	® ®	986'8 986'8	11,194 15,524	373 517
Other														
Angola	629	٥	0	0	0	0	0	0	0	0	٥	0	659	66
Bahamas	0	0	0	263	0	0	48	395	1,412	0	•	2,118	2,118	1 5
Canada	9 0	ò	0 0	0 0	254	0 0	0 •	° į	999	0	က	923	923	33
Condo	1 000	3	> 0	> 0	<u> </u>	-	-	1/6	475	on ·	46	1,139	1,141	38
France	707	o c	> C	-	> C	- 0	> C	9	9/1	0 (0	176	1,409	47
Мехасо	2,564	0	0	0	0	0	O	5	373	> C	<u>e</u>	(*)	(8)	(s)
Netherlands	0	0	0	0	2,210	0	0	0	0	0	0	2.210	2210	74
Netherlands Antilles	0	0	993	0	0	0	0	0	4,093	0	. 10	5,146	5,146	172
3	2,980	0	0 0	0 (0 (0	0	0	0	0	0	0	2,980	66
Puerto Rico	ຄິດ	o c	13.0	> c)))	> C	> c	> c	453	O 5	۱ ٥	453	832	8
Romania	0	0	3 0	0	35	0 0	-	0 0	> C	ဂ္ဂ င	σ	2 5	526 505	ω τ
Sупа	0	0	0	0	45.	0	0	0	0	0	0 0	3 7	28.4	4 م ا
Trinidad and Tobago	0	0	Ξ	0	0	0	0	0	201	0	0	211	211	^
United Kingdom	4,662	φ.	0	0	0	0	0	0	0	0	-	-	4,663	155
Virgoelaria	> c	9	3 62	> (1,126	314	0	Ę'	2,169	0	0	5,160	5,160	172
Other Western	>	•	2	>	•	>	>	0	0	0	0	179	179	ဖ
Hemisphere	173	0	0	0	0	0	0	C	1,565	C	c	1 565	1 799	Q
Other Eastern Hemisphere	1,068	0	0	179	724	0	0	0	0	^	(8)	5.6	979	8 8
Subtotal Other	13,718	293	2,165	445	5,622	314	4	1,272	11,584	112	187	22,039	35,758	1,192
Total Imports	23,909	293	2,165	295	6,648	314	296	1,958	19,534	112	187	32,068	55,977	1,866
,					440		PAD D	PAD District II					İ	
Arab OPEC Algeria	309	00	00	00	00	00	00	00	0.0	0 (0 (0.	608	01
Satisfied State of LC	600	>	>	>	>	>	>	0	0	0	0	0	306	9
Other OPEC Noeria	1054	c	c	c	c	c	c	<	c	c	c	ć		i
Venezuela	0	0	512	0	0	0	o 0	0	0 0	o c	9 6	1. 1.0 1.0 1.0	400,1 400,1	32
Subtotal Other OPEC	1,054	0	512	0	0	0	0	0	0	0	> 0	2,5	1566	÷ 6
1										,	,			\$
														i

See footnotes at end of table.

Table 17. Imports of Crude Oil and Petroleum Products by Source and PAD District, April 1963 (Thousands of Barreis) (confined)

PAD Destrict II PAD Destrict III PAD Destrict II PAD Destr	Source	Sude 2 1	5	Unfin	Gasoline Blending Compo-	Finished Motor	Fuel Fuel	Kero-	Puel Fuel	Resid.	Special Naphthas	Prod-	Prod-	Total Petro-	Total (Danky
6,231 2,250 127 103 363 0 0 0 0 0 0 0 0 0					nents								3		
6,231 2,250 127 103 363 0 34 783 35 74 3 3 3 3 3 3 3 3 3								PAD D	Strict II						
Control Cont	Other			İ			,								
Section Sect	Canada	6,231	2,250	127	\$	363	0	0	8	763	જ	74	3,751	9,982	333
15,953 2,250 640 103 383 0 0 34 763 35 74 4 3 3 3 3 3 3 3 3	France	0 8 34 3	0 0	0 0	0 0	0 0	00	0 0	O C	0 0	00		9	(S)	
16,925 2,250 127 103 363 0 0 0 0 0 0 0 0 0	Norway	576	9 6		0	o c	0		-		> C	-	-	575	
15,590 2,290 127 103 363 0 0 0 0 0 0 0 0 0	Trinidad and Tobago	450	0	0	0	0	0	0	0	0	0	0	0	450	
15,596 2,250 127 103 363 0 0 34 783 35 74 4 3 3 3 3 3 4 4 3 3	United Kingdom	2,019	٥	٥	0	0	0	<u>۵</u>	٥	۵	a			2,019	
15,953 2,250 640 103 363 0 0 34 763 35 74 4	Other Eastern Hemisphere Subtotal Other	0 15.590	2.250	127	o ති	0 88	00	00	o %	763	0 %	0 4	3.751	19341	
PAD Destrict III PAD DESTRICT III PAD Destrict III PAD Destric	Total Imports	16,953	2,250	95	103	38	0	0	8	763	35	74	4,263	21,216	
Are Expension 3,128 0								PAD D	strict III						
Actable Enranges 3,126 0 0 0 0 0 0 0 0 0	Arab OPEC			ļ											
A vable A va	Algeria	3,126	0	0	0	0	0	0	0	521	0	0	521	3,647	
of Arab Emirates 1 0	Saudi Arabia	3,606	0	0	0	0	0	0	0	٥	0	0	٥	3,606	
OPEC 6,732 0<	United Arab Emirates	***	<u>۵</u>	٥	٥	a	0	0	0	0	0	0	0	-	
OPEC 1,745 0<	Subtotal Arab OPEC	6,732	0	0	0	0	0	0	0	25	0	0	221	7.254	
ofor 1,745 0<	Other OPEC														
NA 718 0	Ecuador	1,745	0	0	0	0	0	0	0	0	0	0	0	1,745	
State Stat	Cabon	718	0	0	0	0	0	0	0	0	0	0	0	719	
A	Indonesia	516	0	0 1	0 (0	0 (0 1	0	O	0	485	585	1,00	
th 2,110 302 0 254 350 259 24a 2,399 0 0 0 0 264 0 259 sist 0 0 0 0 0 0 0 0 sist 0 0 0 0 0 0 0 0 da 0 0 0 0 0 0 0 0 da 0 0 0 0 0 0 0 0 po 0 0 0 0 0 0 0 0 po 0 0 0 0 0 0 0 0 po 0 0 0 0 0 0 0 0 po 0 0 0 0 0 0 0 0 sis 0 0 0 0 0 0	Nigeria	2/82	0	0 5	0 (0	0 (0	0 (0 5	0 (0 1	0 ;	2,782	
State Stat	Substate Other OPEC	7,879	-	305	> c	9 0	> 0	4 %	o c	3 5	> c	2 2	271,1	3,282	
State Stat	Salara Cara of Cara	7/01	•	305	>	>	>	* 07	>	3	>	3	/00'1	3,350	
2,389 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Other														
19,612 371 0 0 0 0 0 0 0 0 0	Angola	2,399	0 0	0	0 (0	0 (0	0	0	0		0	2,399	
18,612 371 0 0 0 0 0 0 0 0 0	Australia	9 0	-	0	0 0	0 0	> C	> c	-	5 C	0	(S)	(e)	(3)	
18,612 371 0 0 0 0 0 0 0 0 0	Canada	> <	- C	45	0	9 6	-	0 0	> c	o C	> E	r C	1380	118	
19,612 371 0 0 0 0 0 0 0 0 0	Coop	c	0	7		c		• •		0	Ó	**	4	*	
18,612 371 0 0 (s) 30 0 5 125 1 1 5	France	0	٥	٥	• •	0	0	0	0	0	0	·	æ	3	
Size Size	Mexico	19,612	37.1	0	0	8	ଚ	0	40	125	-		533	20,145	672
Mic of Chiral 2,104 0 0 780 0 0 0 0 0 0 0 0 1,3 Mic of Chiral 0 0 0 0 0 0 0 0 0 0 0 1,3 Mic of Chiral 0 0 0 0 0 0 0 0 0 0 1,3 Dago 1,857 0 0 0 0 0 0 0 0 0 0 17 Dago 0 0 0 0 0 0 0 0 0 0 0 17 Dago 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Netherlands	320	0	0	0	0	0	0	0	0	% [•]	0	8	446	
Aic of Chiral 2,104 0		0	0	86	0 0	0 (•	0 0	0 0	80 6	\$	0 0	1,348	946	
bago 1,657 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Norway Develor Description of China	2,7	> c	5 C	- c	18. C	9 0	0	,	0	-		7	<u> </u>	
bago 1,657 0 0 0 0 0 74 0 1,657 0 0 0 0 0 0 0 17 1,700 0 0 0 0 0 0 0 17 1,700 0 0 0 0 0 0 0 0 1,700 0 0 0 0 0 0 0 0 1,700 0 0 0 0 0 0 0 0 1,700 0 0 0 0 0 0 0 0 1,700 0 0 0 0 0 0 0 0 2,700 0 0 0 0 0 0 0 0 2,700 0 0 0 0 0 0 0 0 2,700 0 0 0 <	Peru		0	9	0	0	0	0	0	۵	۵		17	17	
bago 1,657 0 0 0 0 0 0 0 17 498 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Puerto Rico	0	0	0	٥	0	0	0	0	0	74	0	74	74	
498 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Trinidad and Tobago	1,857	0	0	0	0	0	0	0	0	0	11	11	1,873	
5,926 0 0 0 0 0 0 0 0 0 35 0 0 0 0 0 0 0 0 0	Tunisia	498	0	0	0	0	0	0	0	0	0	0	0	498	
640 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	United Kingdom	5,926	0	0	0	0	0	0	0	0	0	8	8	5,961	
	Virgin Islands	0	0	330	0	0	0	0	0	0	0	φ,	8	8	
	Zaire	3	0	0	0	0	0	0	0	0	D	0	0	98	
	Other Western	•	•	•	•	c	•	•	•	•	c	Q.	9	a F	
															1

Table 17. Imports of Crude Oil and Petroleum Products by Source and PAD District, April 1983 (Thousands of Barrels) (Continued).

								ſ						
Source	Grude Oil 1	LPG	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Distri Prest	Resid. Fuel	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
							PAD D	PAD District (II						
Other Other Eastern Hemisphere Subtotal Other	572 33,958	371	758 4,303	00	0 161	30	00	010	2 695	0 245	583	760 6,393	1,332	1,345
Total Imports	48,562	371	4,605	0	161	30	264	ß	1,566	245	1,323	8,571	57,132	1,904
							PAD Di	PAD Distnet IV						
Other Canada	853 853	276 276	00	00	7	00	00	44	88	68	124 124	412	1,265 1,265	4 42
Total Imports	853	276	0	0	7	0	0	4	9	Ø	124	412	1,265	45
							PAD D	PAD District V						
Other OPEC Indonesia	3,790	00	00	00	155	85 0	00	~ ¢	8	0 0	00	208	3,997	133
Subtotal Other OPEC	4,047	0	00	0	155	ğ	0	·-	33.5	00	00	208	425,	142
Other Canada	900	516	-		122	37	0	9	0	55	œ	748	1.048	58
1	0	0	0		•	0	0	₽	0	0	4	27	27	} -
People's Republic of China Trivided and Tobaco	00	00	0 %	00	657	00	00	00	00	00	00	657	657	22 -
Other Western	•	•	ì		•	•	>	•	•	•	>	j	7	-
Hemisphere	0	0 (0	0	0	0	0	0	35	0	0	92	92	က
Other Eastern Hemisphere Subtotal Other	300	516	27 0	00	G 69	8 8 8	00	5 5 5 5 5	386	o ñ	8 23	629 2,180	2,480	28
Total Imports	4,346	516	27	o	1,024	109	0	2	420	15	\$	2,388	6,734	224

Includes crude oil imported for storage in the Strategic Petroleum Reserve.
 Includes aviation gasoline, waxes, asphalt, lubricants, natural gasoline, isopentane, plant condensate, naphthas less than 400 degrees F, other oils greater than 400 degrees F and miscellaneous products.
 Less than 500 barrels or less than 500 barrels per day.
 Note: Totals may not equal sum of components due to independent rounding.
 Sources: See Explanatory Notes on Data Collection and Estimation.

Table 18. Exports of Crude Oil and Petroleum Products by PAD District, April 1983 (Thousands of Barrels)

		Petroleum /	Petroleum Administration for Defense Districts	for Defens	se Districts	
Commony	_	=	=	≥	>	Total
Crude Oil (including lease condensate) 1	o	393	0	0	2,237	2,630
Liquefied Petroleum Gases	146	705	2,498	-	138	3.487
Ethans	(8)	(S)	0	0	0	(8)
Propane,	120	282	2,172	<u>(8</u>	55	2,629
Butane	56	423	326	<u></u>	83	828
Butane-Propane Mixtures	0	0	0	0	0	0
Finished Motor Gasoline	8	-	=	0	24	88
Naphtha-Type Jet Fuel	0	0	0	0	200	200
Kerosene-Type Jet Fuel	(s)	0	0	0	17	17
Kerosene	(S)	(S)	(s)	0	(s)	_
Distillate Fuel Oil	2	O	(S)	0	1,406	1,408
Residual Fuel Off	(s)	0	3,391	0	5,920	9,311
Naphtha < 400 Deg. for Petrochem. Feedstock	20	9	88	2	ເດ	130
Other Oils > 400 Deg. for Petrochem. Feedstock	33	0	260	0	•	299
Special Naphthas	က		83	-	•	35
Libricants	216	=	337	-	78	644
Waxes	4	-	10	O	က	82
Petroieum Coke	199	918	3,390	9	1,203	5,710
Asphalt	•	7	(s)	(S)	60	+
Miscellaneous Products	Ξ	8	17	(8)	4	좛
Total Product Exports	673	1,647	10,312	ro.	900'6	21,642
Total	623	0000	10.919	ŧ	0,0	0.00

¹ Exports of crude oil are prohibited by law. However, some crude oil is exchanged with Canada on a barrel for barrel basis, and crude oil is shipped to U.S. Territories (expecially Puerto Rico and the Virgin Islands) to be refined there. The Statistical Tracking Systems count these exchanges and shipments as imports and exports.

(s) Less than 500 barrels.

Note: Total may not equal sum of components due to independent rounding. Sources: See Explanatory Notes on Data Collection and Estimation.

Table 19. Exports of Crude Oil and Petroleum Products by Destination, April 1983 (Thousands of Barrels)

\$\begin{array}{c} \text{3} & \tex	Destruation	Crude Qi 1	PG	Motor Gasoline	Fuel Pat	වී රි	P. Q	Special Naphthas	cants	Waxes	Per S	Asphalt	Other	Total	(Daily Average)
Colored Colo	Amendina	•	8	•	-	•	•			3	ä	٠	5	343	
3 3 3 3 3 3 3 3 3 3	: 1	0	8 -	> 0	0	0	0	S	- 0	<u> </u>	137		_	£ 5	n un
Section Sect		0	· 6/4	~	·	-	149		1 64		0	(E)	_	155	ស
Section Sect	Bahrain	0	7		0	0	٥	0	(2)		8	Ø		99	04
3	Belgium & Lucembourg	0 (0 6	0 (0		7 0	<u> </u>	282	. '		365	12
1	Brázil	0 (ક ક	0	0 (Φ 6	0 0	_	en o	(E)	0 8	0	<u>.</u>	₽ 8	S
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Canada Canada	30.0	7.4	- £	> C	> (0	, K	ۍ د	- g	> (*	3 6	ο σ	> g	. 18 5 18	- æ
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Chila	3	= -	; 0	0	o	? =	-	3 ~	8	3 -) C	3 -	<u> </u>) (S
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	China (Taiwan)	o	0	0	0	0	0		. 21	ত		_	ક	. <u>ნ</u>) <u>@</u>
19 19 19 19 19 19 19 19	Colombia	0	<u>ક</u>	0	0	0	0		œ		(8)	;	(S)	Ø	.
1	Costa Rica	٥		0	0	0	0	-		(8)		0	:	3	(s)
State Stat	Denmark	0	13	0	0	٥	0		<u>(8</u>	(3)	0	0	<u>(s)</u>	9	•
Sample S	Dominican Republic	0	73	0	0	0	0	_	-	0	<u>ہ</u>	0	_	75	0
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Ecuador	0	8	0 (0 (0	0	0	, ,	છ (ઉ	0 8	00	- 3	8 3	(
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Egypt	0 0	0 1	0 6	0 6	> c	9 6		- ·	> C	3 .	-	<u> </u>	* 4	m 3
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	El Sarvador	9 0	~ <	o c	> C	> 0	-		V 6	> C	> 0	9	~ +	ח מ	2
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	France	0 0		-	o c	> C			v 4	, c	840	<u> </u>	- 650	875	2
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Franch Dartin let	a C		· c		40	c			1 ~	9 0	(8)	9	70	3 °
(8) (8) (9) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	Ghana	0 0	0 0	o c	0	9 0	• •		<u> </u>	0	5	E	(S)	? ∓	3 (8)
(e) (f) (g) (g) (g) (g) (g) (g) (g) (g) (g) (g	Grados	c		¢	0	• 0			Œ		4	(S)	<u> </u>	75	2
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Guatemala	0	0	0	0	0	0			_	0		:	on.	(S)
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Guinea	0		o	0	0	0		-	:	0	0	0	•	©
(a) (b) (c)	Honduras	0	(E)		0	0	0		0	<u>©</u>	0	_	<u>(c)</u>	6	
State Stat	Hong Kong	0		0	0	0	8			3	0	_	m	Ε'	8
State Stat	India	0	0	0	0	0	0		က	Ē	٥			LO.	<u>©</u>
(a) (b) (c)	Indonesia	0	0	0	200	0	0	_	4	0	0	_	<u>(</u>	241	Ø
Section	Iran	0		0	0	0	6		0	0 1	0	0	0	Ø (0
1,584	Srael	0	<u>e</u>	0	0 0	00	0		જ ક	5	0 5		(8)	(s)	®
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1,584 0 535 3,404 6 63 2 1,037 0 11 6,642 3	lydy Coast	>	2	- C	-	-	~ ~	(8)	£ %	> C	o c) E	37	E
1		o c	1 584	0 0	• •	73.5	3.404		1 22		1.037	0		6.642	. 22
poublic of 9 7 8 7 8 16 0 2 514 4 1 0 <	Corden	· -	-	· ~	· C	3 6		0	3 ~	. 0	0	. 0	. 0	2	(8)
1	Korea Recublic of	0	, co	¢	0	419	67	(S)		<u>s</u>	16	0	~	514	17
1	Kuwait	0	۰, ۳	0	0	0	0	:©	(£)	:	Đ.	0		-	(S)
Company 1 0 0 1 0 0 1 </td <td>Lebanon</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>-</td> <td>٥</td> <td>0</td> <td>0</td> <td>(S)</td> <td>-</td> <td><u>(8</u></td>	Lebanon	0	0	0	0	0	0	0	-	٥	0	0	(S)	-	<u>(8</u>
ds 0	Liberia	0	***	0	0	0	≅ ,	0	ક	0 (0 (0	,	162	s S
ds 0 286 0 225 9 27 (s) 177 0 155 884 dcs Antilles 0 </td <td>Malaysia</td> <td>0</td> <td>0 750</td> <td>0</td> <td>, c</td> <td><u>ن</u></td> <td>•</td> <td>O +</td> <td>- 9</td> <td>> ₹</td> <td>) </td> <td><u>@</u></td> <td></td> <td>404</td> <td>(s) ¹</td>	Malaysia	0	0 750	0	, c	<u>ن</u>	•	O +	- 9	> ₹) 	<u>@</u>		404	(s) ¹
dcs Antitles 0 0 0 1 200 1 0 0 0 1 200 1 0	Mexico	-	28.6 4.02	tC	: C	0	33.	- σ	7 8	(8)	1	0	155	88	₹
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$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	New Zealand	0	0	0	0	¢	0	_	_	(S)	(8)	0	(8)	-	<u>s</u>
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Nicaragua	0	0	o	0	0	0		က	•	0	0	8	က	®
ust Terr. 0 1 0 0 0 0 0 0 167 0 167 <t< td=""><td>Nigena</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td></td><td>(s)</td><td>0</td><td>0</td><td>φ</td><td>S</td><td>(s)</td><td>(s)</td></t<>	Nigena	0	0	0	0	0	0		(s)	0	0	φ	S	(s)	(s)
ust Terr. 0	Norway	0		0	0	0	0	গ্ৰ	4	જ	162	0	Đ:	167	g
South Africa	Pacific Trust Terr.	0	0	0	0	0	0		<u>(</u>	0	0	(e)	<u>s</u>	(s)	<u>(8</u>
South Africa	Panama	0 (£ 4	0	0 0	8	= 0		יז כיי	<u> </u>	2	> 6		3 5	~ *
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0 1 0 0 (s) 0 0 33 4 57 (s)	Principlines	o c	4 0	9 0	0	0	(8)	_	- 22	5	0	0	4	8	o er
	Ren of South Africa	0	3 ~~	0	0	(8)			8	**	27	(\$)	0	8	m
						.		i							

Table 19. Exports of Crude Oil and Petroleum Products by Destination, April 1983 (Thousands of Barrels) (continued)

			Finished	ţ	Dast	Residual	Snorial	3 uhri		Petro-	1			Total
- Destination	Oude	LPG	Motor Gasoline	Fuel	g ge	Pre S	Naphthas	cants	Waxes	Coke	Asphalt	age of	Total	(Daily Average)
Saudi Arabia	0	2	0	0	0	0	(s)	ន	0	0	0	2	82	-
Singapore	0	-	0	0	0	3,369	9	က	S)	0	S	•	3,381	113
Spain	0	66	0	0	193	0	0	(s)	®	1,215	0	S	1,558	25
Surinam	0	0	0	0	0	0	0	<u>(s)</u>	0	0	0	(s)	(S)	(s)
Sweden	0	0	0	0	0	0	(s)	00	(s)	0	0	_	6	(S)
Switzerland	0	-	0	0	0	336	0	<u>(8</u>	(s)	155	0	ო	495	17
Thailand	0	(s)	0	0	0	0	2	ដ	0	0	0	<u>(s)</u>	24	,
Trinidad and Tobago	0	-	0	0	0	0	0	-	0	0	0	0	-	(s)
Turkey	٥	0	0	0	0	0	(s)	(s)	0	\$	0	0	\$	7
United Arab Emirates	0	(s)	0	0	0	0	(s)	(S)	0	0	(2)	<u>®</u>	-	<u>(S</u>
United Kingdom	0	4	0	0	0	308	(s)	9	(s)	2	(S)	12	358	12
U.S.S.R.	0	0	0	0	0	0	0	න	0	0	0	0	58	-
Unguay	0	0	0	0	0	0	0		0	0	0	9	-	(s)
Venezuela	0	4	0	0	0	0	က		<u>(s)</u>	S	Ø		ន	2
Virgin Islands	1,763	0	0	0	0	340	0	<u>(s)</u>	0	0	0		2,103	70
West Germany	0	က	0	0	0	0	(s)	=	(s)	8	0	35	5	4
Yugoslavia	0	0	0	0	0	0	0	<u>(S</u>	0	\$	0		\$	-
Other	474	8	=	0	0	344	(s)	17	(s)	8	(s)		987	33
Total	2,630	3,487	38	217	1,408	9,311	35	\$	18	5,710	=	764	24,272	809

1 Exports of crude oil are prohibited by law. However, some crude oil is exchanged with Canada on a barrel for barrel basis, and crude oil is shipped to U.S. Temtones (especially Puerto Rico and the Virgin Islands) to be refined there. The Statistical Tracking Systems count these exchanges and shipments as imports and exports. (s) Less than 500 barrels or less than 500 barrels per day.

Note: Total may not equal sum of components due to independent rounding. Source. See Explanatory Notes on Data Collection and Estimation.

Table 20. Stocks of Crude Oil and Petroleum Products By PAD District, April 1983 (Thousands of Barrels)

	PA	PAD District			A A	PAD Dietrice II	=										
Соттоблу	East Coast	Appala- chian #1	Total	Appala- chian #2	Ind.	Minn., Wisc., Daks.	Okla, Kans,	Total	Texas	Texas Gulf Coast	La. No. La. Gulf Ark.	-	New Mexico	Total	PAD Dist. IV Rocky	PAD Dist.	United States
Crude Oil (incl. lease condensate) Refinery Tank Farms and Pipelines Leases Strategic Petroleum Reservet Alaskan In-Transit Total	11111	11111	14,947 1,385 59 0 0 16,391	111111	- 	111111	11111	13,754 65,719 1,691 0 0 81,164	11111	11111	11111		111111	54,001 93,815 17,622 317,735 0	2,759 11,984 1,426 0 0 0 16,169	24,729 28,579 1,686 0 31,659 86,653	110,190 201,482 22,484 317,735 31,659 683,550
Total Stocks, All Olis (excl. Crude Oil) Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	33,318	2,975 	36,293 91,155 27,645 170 155,263	975 0	44,070	7,250	17,811	70,106 80,097 32,840 1,035	9,513	77,703	43,927 	4,840	240 240	137,304 68,840 37,810 4,378 248,332	14,513 2,532 2,717 223 19,985	61,397 19,100 3,891 68 84,456	319,613 261,724 104,903 5,874 692,114
Natural Gasoline and Isopentane Refinery Bulk Terminal Bulk Terminal Pipeline Natural Gas Processing Plant Total	. i . i .	o ½	₹ £ 0 ₹ 4	١١٥١	24	1 4 1 1 28	127	176 1,238 194 162 1,770	8 1 1 2 1	37.1	95 57	11 5	, L &	697 1,527 655 702 3,581	n - 888	28 0 25	915 2,782 878 935 5.510
Unfractionated Stream Refinery Bulk Terminal Peline Peline Natural Gas Processing Plant Total	1	° °	00000	۱۰۱۱	0 46	١١٣١	0 1 1 3 1	0 1,133 263 442 1,838	011251	0 - 1,095 -	0 8	0 -	0 4	0 1,386 2,651 1,385 5,422	0 491 37 528	000	2,519 3,405 1,865 7,789
Plant Condensate Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	111	°11°1	00000	01101	 % %	0 4	0 6	2 0 0 0 tz	1 31 1 5	1 100	۱۹۱۱ °	8 &	01101	178 0 147 73 398	00022	00000	183 0 100 100 684
Liquefied Petroleum Gases Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	88	= &	432 1,173 2,425 134 4,164	₩ 0	1,128	51181	88 188	1,921 18,884 6,935 420 28,160	167 1,136	3,839	1,995	1 36 38	81181	6,052 40,449 3,208 1,945 51,654	331 52 548 548	866 582 0 46 1,494	9,602 61,145 12,606 2,667 86,020
Ethane Refinery Bulk Terminal	0	0 1	000	۱۱°	~	°II	0	7 663 1,146	۱۱°	1,142	°II	6 	°	1,142 1,857 279	000	000	1,151 2,520 1,425

Table 20. Stocks of Crude Oil and Petroleum Products By PAD District, April 1983 (Thousands of Barrels) (continued)

	J.VG	O A C			2	1	=					1	İ				
Commodity	East	Appala- chian #1	Total	Appala- chian #2	Ind., Iii . Ky	Minn, Wisc, Daks.	Okla., Kans., Mo.	Total	Texas	Texas Gulf Coast	Coulf Coulf	No. La., Ark	New Mexico	Total	PAD Dist. IV Rocky Mt.	Dist. V West	United States
Ethane Natural Gas Processing Plant	0	°	00	°۱	8	°۱	88	55 1,871	۱	٦	°I	0	⁸⁰	93,287	- ε	00	65 5,161
Propane for Petrochemical Feedstock Use Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	8 	°II°I	မ္က ၀၀၀မ္က	°II°I	1 1 1 23	° °	- 0	124 0 0 124	-II°I		8 0		01101	47 0 0 4	00000	00000	233 0 0 0 233
Propane For Other Uses Refinery Bulk Terminal Pipeline Natural Gas Processing Plant	329	ا ا ا ا م	335 1,049 2,341 78 3,803	-1101	88 I I I	12118	232	924 11,046 3,702 163 15,835	8 § 	970	854 	. I I I	د ۱۱ <u>۵</u> ۱	1,863 16,287 1,243 875 20,268	99 98 98 98 98 98	133 194 0 0 355	3,354 28,632 7,289 1,236 40,511
Butane For Petro. Feed Use Retinery Bulk Terminal Pipeline Natural Gas Processing Plant Total		° °	00000	°II°I	。。 	2 ₀	。。 	2100012	°II°I	51	°II°I	11 1	°II°I	820008	00000	00000	15 0 0 15
Butane For Other Uses Relinery Bulk Terminal Pipeline Natural Gas Processing Plant	ध । ।।	١١٦١	82288	۱ ° ۱ ا ۳	88 1 1 1 1	₇ 4 ₈	± 8	523 2,250 1,051 111 3,935	317	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	53 8	ا ا ا ق	١١٤١	1,659 9,240 320 512 11,731	186 1 0 26 213	527 255 0 10 792	2,957 11,870 1,435 714 16,976
Butane-Propane Mixtures For Petro. Feed Use Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	use 	°II°I	00000	°II°I		°II°I		00000	°II°I		°II°I	111	°ll°l	00000	00000	00000	00000
Butane-Propane Mixtures For Other Uses Relinery Bulk Terminal Pipeline Pipeline Natural Gas Processing Plant Total	0 0	° °	00000	01101	۳ ۵	° °		3 498 20 1 522	_ m	1	ω °	111	, 11 ₀ 1	36 27 647 20 730	40000	491 65 0 0 661	207 554 667 29 1,457
Ethane-Propane Mixtures Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	0	01101	00000	0 0		° °	0 1 1	3,028 496 67 3,593	1 342 1		°11°1		o 1 m	9,089 499 360 9,948	0 0 0 0 0 0 0 0	00000	0 12,117 1,032 427 13,576

Table 20. Stocks of Crude Oil and Petroleum Products By PAD District, April 1983 (Thousands of Barrels) (continued)

	2				-										2)	
		Annala		Annah		1	2			ı					2	Į.	
Commodity	Sold Fig.	Appelle chian #	Total	Appage Chian 5	III, Ky.	Wind Wisc. Daks	Age Se Se Se Se Se Se Se Se Se Se Se Se Se	Total	Texas	Coest Program	를 를 다. 15 등 15 PE	No. La.	Nexico	Total	Dest. IV Rocky	3 > ¥ 6 5 €	United
facturane Referen	-	c	•	¥	ş	,	٤	8	3			!	,			3	
Bulk Terminal	•	ì	0	}	3	3	3	1300	ō	8	3	9	n	1,250	3 c	₹	1,649
Pipeine	ŀ	I	8	1	1	1	ı	518	1	1	ı	 		2	-	g c	758
Natural Gas Processing Plant	F -	0	-	0	Ŋ	-	17	83	2	47	37	ĸ	00	2	, ~	9 0	3 5
Total	ı	ı	7	1	1	1	I	2,259	ı	1	1	1	1	5,588	4	146	8,055
Other Hydrocarbons and Alcohol																	
Refinery	4	0	2	0	133	0	0	\$	-	8	ន	0	٥	112	0	7	286
Bulk Terminal	I	1	0	ı	ı	ı	ı	0	ı	ı	1	ı	1	0	0	0	0
Motor Con December Desert	ı	۱'	0 (۱'	1	L	ı	0	1	1	I	ı	1	0	0	0	0
Total	>	5	٠;	0	0	0	0	0	0	0	0	0	0	0	0	0	0
. 7.08	ı	1	\$	ł	ı	1	ı	83	1	I	1	ı	ı	112	0	7	286
Unfinished Olis Refinery																	
Naphthas and Lighter	3,304		3,593	46	3,244	151	1,306	4,747	747	7,737	5,692	161		14.422	539	4.342	27 643
Kerosene and Lighter Gas Oils	1,780		1,812	0	2,348	18		2,861	793	7,557	1,282	8	9	9,677	549	3,992	18,891
Residum	5,437		5,757		5,745	528		8,035	998	12,214	6,258	270		19,718	994	11,534	46,038
Total	12,169	88	13,050	- 051	3,445 14,782	5 4 5	1,533	20,644	2.945		3,185	8 8	o v	8,121	932	5,586	21,528
Motor Gasoline Blending Components	,																} !
Refinery	3,985	11	4.062	33	5.659	752	1 806	8 248	1 273	7 942	6.031	126	12	45.550	7000	1003	0
Bulk Terminal	1	1	66	1	1	1	1	18	1	1	3 1	3		068	4,544) oc o	1 101
Pipeline	ı	ı '	0	Ι,	1	ı	ł	180	ı	ı	1	ı	1	8	0	0	823
National Gas Processing Plant	-	>	0 ,	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VVI mpremaverente trees proposed and a management of the contract of the contr	ì	I	4, 101	I	I	I	ı	8,446	ı	I	ı	l	ł	16,501	2,325	6,460	37,893
Aviation Gasoline Blending Components																	
Refinery	0	0	0	0	80	0	2	1	£3	88	179	0	0	250	0	충	385
Bus i eminai	L	1	0	ı	1	l	ı	0	ŀ	1	ı	ı	ı	0	0	0	0
Natural Gas Processing Plant	0	°	0	٥	。 	,	ه ا	,	ء ا	- 	۱۶	ر ا	۱۹	00	0 0	0 0	9
Total	ı	ı	0	1	ı	1		101	١ ١	, !	۱ ۹	·	۱ '	250 c	0	- ¥	385
Total Finished Motor Gasoline																	
Refinery	4,263	σ.	4,412	35	6,572	_	2,941	11,146	1,762	9,101	5,141	755	200	16,959	2,528	6,863	41,908
Pipeline			30,373 15,233	1 1	1 1			30,186		1.1	L	1 1	1	11,109	1,561	8,677	88,508
Total Finished Motor Gasoline												1		07, 10	<u>.</u>	403a	32,401
Natural Gas Processing Plant	8	0	8	0	0	0	0	0	0	0	0	٥	0	c	5	-	6
Total	1		56,640	1	1	1	φ 	56,918	1	1	1	, 		46,196	5,556	17,599	182,909
Finished Leaded Motor Gasoline Refinery	1,706	78	1,784	4	3.156	ä	1 674	5815	ç		5	Ç					
Bulk Termingl	· 1		6,983				1	5,446	Ì	2 2 4	1 1	۱	g	4 938	- - - - - - - - - - - - - - - - - - -	20.7	22,22
Pipeline	ı		8,939	ı	1	ı	1	8,257	ŀ	1	ł	ı	I		28 28 28	1 009	28.28
Natural Gas Processing Plant	ا ت	° ا	13	0	0	0	۰	0 67	0	0	0	0	۰		D	0	83
**************************************				I	l			C	ĺ								

Table 20. Stocks of Crude Oil and Petroleum Products By PAD District, April 1983 (Thousands of Barrels) (continued)

	PA	PAD District 1	-		PA	PAD District II	=				PAD District III	क्षाद्ध 🔠			O P P	PAD	
Commodity	East	Appala- chian #1	Fotal	Appala- chian #2	Ind., III., Ky.	Minn., Wisc., Daks.	Okla., Kans., Mo.	Total	Texas	Texas Gulf Coast	La. Gulf Coast	. 1	New Mexico	Total	Dist. IV Rocky Mt.	Dist. V West	United
Finished Unleaded Motor Gasoline Refinery	2,557	F11°1	2,628 19,992 6,294 7 28,921	84 ₀	3,416	% I °	1,267	5,331 14,740 7,329 0 27,400	942	4,742 - - 0	2,720	298	ž I I _o I	8,807 6,171 9,236 0 24,214	888 603 432 2 1,925	4,025 4,406 1,050 0 9,481	21,679 45,912 24,341 9
Finished Aviation Gasoline Refinery	4 3 0	° °	42 378 0 0 420	°II°I	202	° °	[221 383 50 0 654	26 106	280 	17.1	0 0	°11°1	480 113 21 106 720	4 8 1 5 0 0 1 7 9	223 345 0 0 568	1,010 1,237 76 106 2,429
Naphtha-Type Jet Fuel Refinery Bulk Terminal Pipeline	167	क्ष । । ।	201 17 167 385	°111	95	4 1	34g	1,084 505 1,744	237	£ 111	88	1 1	127	1,657 285 546 2,488	180 8 71 259	734 493 298 1,525	3,856 1,308 1,237 6,401
Kerosene-Type Jet Fuel Retinesy	1,262	°	1,262 4,904 3,240 9,406	4	1,457	# 1 1 1	156 1	1,768 3,217 2,259 7,244	26 1 1 1	2,422	1,971 	۳ ۱۱۱	= 111	4,704 1,680 4,321 10,705	394 195 134 723	3,219 1,981 571 5,771	11,347 11,977 10,525 33,849
Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	86 1	8 °	456 2,991 284 0 0 3,731	°II°I	673	4 °	297	1,010 1,114 113 0	4 1 0	8 1 1	381101	6 0 	211.1	1,053 601 384 3 2,041	27 0 0 0 62	203 65 1 269	2,724 4,798 782 3 8,307
Distillate Fuel Olis Refinery Bulk Terminal Pipeline	3,459	316	3,775 21,745 6,289	811	4,913	1,542	3,183 1 1	9,671 16,504 7,075	979	7,781	3,717	۱۱ ق	1 1 85	13,365 5,189 7,467	1,672 580 499	4,290 4,117 943	32,773 48,135 22,273
Distillate Fuel Oils Natural Gas Processing Plant	l	°I	0 31,809	۰ ،	1	°	0	33,250	° 1	o I	°I	· I	°I	2 26,023	2,751	0 9,350	2 103,183
Residual Fuel Oils Refinery Bulk Terminal Prpeline Total	2,614	#111	2,731 17,540 0 20,271	88 1	1,650	表	£ 1 1 1	1,975 1,466 0 3,441	379	4,653	3,502	<u>8</u>	8 	8,837 4,581 1 13,419	453 0 0 453	7,197 1,819 14 9,030	21,193 25,406 15 46,614
forther of pad of table															-		

See footnotes at end of table.

Table 20. Stocks of Crude Oil and Petroleum Products By PAD District, April 1983 (Thousands of Barrels) (continued)

Constitution Continuodity East Appalation Coast #1 Coast Appalation Coast #1 #1 Coast Appalation Į į	₹.0		Minn.	OKI2.								3)		
88 44 8 0 0 0 44 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		#5	III., Ky.	wisc., Daks.	Kans. Mo.	Total	Texas	Texas Gulf Coast	Coast Coast	No. La. Ark	New	Total	Dist. IV	Vest Vest	United States
44 % 0	98	00	52	00	88	¥ ¥	152 152	1,057	550	44	00	1,800	00	276 276	2,246 2,246
essing Plant	4.4	,00	5 5	00	-	<u> </u>	143	907	210 210	ოო	00	1,263	20 00	36.	1,756 1,756
	5 505	°I°I	ž , ,	۱۰۱	ا ا ق ه	267 212 0 479	8151	1,340	8 0	167	° °1	1,567 78 107 1,752	5005	295 26 0 325	2,138 821 107 3,126
Lubricants 1,009 1,004 Bulk Terminal — — Total — —	1 2,013 1,389 3,402	°11	113	۱۱°	573	1,344 847 2,191	4	3,491	1,262	8 1 1	°	5,357 337 5,694	۲ ° ۶	676 616 1,292	9,461 3,192 12,653
Waxes 23 146 Bulk Terminal 23 146 Pipeline — — Natural Gas Processing Plant 0 0 Total — —	169	01101	g o	01101	5 III	80008	8 1 0	0 1 508	គ <u>្</u> វា	8 ° 	01101	44 0 0 0 0 44 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	N 0 0 0 W	20002	00 0 0 0 0 0 0 0 0 0 7 7
Petroleum Coke 744 0 Total 744 0	4 4	00	828 828	2 2	943 943	1,813	00	22 22	602 602	200	00	886 886	882 882	2,293 2,293	6,618 6,618
Asphalt and Road Oil Refinery 2,403 104 Bulk Terminal	2,507 3,384 5,891	417	4.1	2,423	1,232	8,172 4,335 12,507	962	155	8 1 1	1,149	1 586	3,690 539 4,229	2,596 81 2,677	1,744 251 1,995	18,709 8,590 27,299
Miscellaneous Products 250 33 Bulk Terminal — — Pipeline — — Natural Gas Processing Plant 0 0 Total — —	283 42 7 7 332	-1101	F -	4 °	4 0	80 82 80 10 10 10 10 10 10 10 10 10 10 10 10 10	52 40	1 1 88	# 0	8 +	01101	461 76 222 55 814	000	196 32 0 0 228	1,020 205 259 57 1,541
Total Stocks, All Oils	171,654		ŀ	1		265,242	ı	ı	۱	1	ï	731,505	36,154	731,505 36,154 171,109 1,375,664	,375,664

Includes 33,879 thousands of barrels of domestic crude oil.
 Sources: See Explanatory Notes on Data Collection and Estimation.
 Not Applicable.

Table 21. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, and Barge Between PAD Districts, April 1983 (Thousands of Barrels)

- I	<u>r</u>	From I to			From II to	2			From III to	2		ĩ	From IV to		From V to	۵ . <	From	From V to
, some series of the series of	=	=	>	-	=	2	>	-	=	≥	>	=	ııı	٨		H	Ш	2
Crude Oil (Tanker and Barge only)	82	0	0	0	٥	0	0	213	089	0	0	0	0	0	4,402	0	21,927	0
Petroleum Products	7,534	354	0	2,645	6,586	1,976	883	78,995	18,296	0	1.847	1.217	470	1.204	24	o	267	
Natural Gasoline and Isopentane	0	0	0	0	95	0	0	0	354	0	0	-	0	0	0	. 0	0	
Unfractionated Stream	0	0	0	0	609	0	0	0	711	0	0	394	470	0	0	0	0	
Plant Condensate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Liquefied Petroleum Gases	0	0	0	465	2,331	139	0	1,472	4,699	0	0	0	0	0	0	0	0	
Unfinished Oils	7	120	0	0	51	0	0	211	169	0	0	0	0	0	0	0	0	
Motor Gasoline Blending Components	0	0	0	0	0	0	0	0	961	0	0	0	0	0	0	0	0	
Aviation Gasoline Blending Components	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Finished Motor Gasoline	5,480	0	0	1,460	2,317	1,118	185	48,469	6,722	0	860	518	0	829	24	0	0	
Finished Leaded Motor Gasoline	3,066	0	0	999	1,296	628	66	20,454	3,088	0	469	355	0	494	24	0	0	
Finished Unleaded Motor Gasoline	2,414	0	0	792	1,021	490	8	28,015	3,634	0	391	196	0	335	0	0	O	
Finished Aviation Gasoline	0	0	0	0	54	48	0	121	117	0	0	0	0	0	0	0	0	
Naphtha-Type Jet Fuel	112	0	0	0	B	0	0	299	151	0	297	68	0	49	0	0	0	
Kerosene-Type Jet Fuel	147	0	0	178	£S	503	0	9,339	1,482	0	218	4	0	\$	0	0	0	0
Kerosene	19	0	0	10	0	0	0	388	10	0	0	0	0	0	٥	0	0	
Distillate Fuel Oil	1,731	0	0	253	6//	198	305	15,343	2,245	0	375	201	0	283	0	0	0	
Residual Fuel Oil	0	140	0	36	18 2	0	339	1,726	231	0	4	0	0	0	0	0	166	
Naphtha and Other Oils for Petro.																		
Feedstock	8	0	0	6	0	0	0	8	თ	0	ιO	0	0	0	0	0	0	_
Special Naphthas	0	0	0	0	0	0	0	295	72	0	7	0	0	0	0	0	0	
Lubricants	0	8	0	37	ል	0	0	533	80	0	4	0	0	0	0	0	1	
Waxes	0	0	0	0	0	0	0	က	0	0	0	0	0	0	0	0	0	
Asphalt and Road Oil	0	0	0	36	0	0	0	162	270	C	0	0	0	0	0	0	0	_
Miscellaneous Products	4	0	0	161	ଷ	0	0	184	13	0	0	0	O	0	0	0	24	0
Total All Products	7,616	354	0	2,645	6,586	1,976	88	79,208	18,976	0	1,847	1,217	470	1,204	4,426	0	22,194	٥

Table 22. Movements of Petroleum Products by Pipeline between PAD Districts, April 1983 (Thousands of Barrels)

	From I to	5		From II to			From III to	a			From IV to		Fron	From V to
Commodity	=	=	-	=	≥	-	=	2	>	ij	111	>	≊	2
Natural Gasoline and Isopentane	0	٥	a		0	0	354	0	0	=	0	0		
Unfractionated Stream	0	0	0		0	0	711	0	•	394	470	0		
Plant Condensate	0	0	0		0	0	0	0	0	0	0	٥		
tionefied Petroleum Gases	0	0	465		139	1,156	4,699	0	0	٥	•	0		
Motor Gasoline Riending Components	0	0	0		٥	0	961	٥	0	0				
Aviation Gasoline Blending Components		0	0		0	0	0	0	0					
Finished Motor Gasoline		٥	1,187		1,118	35,873	5,586	0	860					
Finished Leaded Motor Gasoline		0	545		628	15,241	2,560	0	469					
Finshed Unleaded Motor Gasoline		0	642		490	20,632	3,026	0	391					
Finished Aviation Gasoline		0	0		5	53	88	0	0	٥	0	0	0	•
Nanhtha-Tybe Jet Fuel		0	0		0	315	151	0	297					
Kerosene-Type Jet Fuel		0	15		503	5,696	1,346	0	218					
Kernsene		0	0		0	348	유	0	0					
Distrilate Fuel Or		0	226		198	10,706	1,751	0	375					
Resultal Fire Oil		0	0		0	0	0	0	0					
Miscellaneous Products		0	152		0	0	0	0	0					
Total	5,337	0	2,194	6,249	1,976	54,119	15,657	0	1,750	•		٣		
			i			•	•							

Source: See Explanatory Notes on Data Collection and Estimation.

Table 23. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, April 1983 (Thousands of Barrels)

		From 1 to			From II to				From III to	III to		,	"	From V to	
Commodity	=	Ш	^	1	Ш	>	-	New Eng	Cent	Low	=	^	_	=	H
Crude Oil	82	0	0	0	0	0	213	0	213	0	680	0	4,402	0	21,927
Petroleum Products	2,197	354	0	451		889	24,876	2,328	3,904	18,644	2,639	97	24	0	267
Liquefied Petroleum Gases	0	0	0	0		0	316	0	0	316	0	0	0	0	0
Unfinished Oils	7	120	0	0		0	211	0	211	0	169	٥	٥	٥	٥
Motor Gasoline Blending Components	0	0	0	0		0	0	0	0	٥	0	0	0	0	0
Finshed Motor Gasoline	1,401	٥	0	273		185	12,596	555	697	11,344	1,136	0	24	٥	0
Finished Aviation Gasoline	0	0	0	0		0	96	0	္က	99	59	0	0	0	0
Naphtha-Type Jet Fuel	112	0	0	٥		٥	352	a	119	233	0	0	O	0	0
Kerosene-Type Jet Fuel	72	0	0	4		٥	3,643	210	621	2,812	136	0	o	0	0
Kerosene	5	0	0	5		0	40	0	0	4	0	0	0	٥	0
Distillate Fuel Oil	280	0	0	27		305	4,637	1,106	1,252	2,279	494	0	0	0	0
Residual Fuel Orl	0	140	0	98		336	1,726	416	199	1,111	231	4	Q	0	166
Petro, Feed.	8	0	0	on		0	8	0	2	5	თ	sc.	0	0	0
Special Naphthas	0	0	0	0		0	295	0	214	8	72	7	0	0	0
ubricants	0	94	0	37	\$	0	535	41	360	134	8	45	0	0	11
Waxes	٥	0	a	٥		0	e	0	en	0	0	0	0	0	0
g	0	0	0	36		0	162	0	19	143	270	0	0	0	0
Miscellaneous Products	4	0	0	Ø		0	#	0	109	75	5	0	٥	0	54
Total	2,279	354	0	451	337	889	25,089	2,328	4,117	18,644	3,319	97	4,426	٥	22,194
														1	

Source, See Explanatory Notes on Data Collection and Estimation.

Table 24. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker and Barge Between PAD Districts, April 1983 (Thousands of Barrels)

	4	P.A.D District 1	1 1	P.A.	P.A.D. District II	10	P.A	P.A.D. District III	=	P.A.	P.A.D. District IV	2	PA	P.A.D. District V	,
Commodity	Receipts Into PADD I	Ship- ments from PADD I	Net Receipts PADD I	Receipts into PADD II	Ship- ments from PADD II	Net Receipts Receipts into PADD II PADD III		Ship- ments from PADD III	Net Receipts PADD III	Receipts into PADD IV	Ship- ments from PADD	Net Receipts PADD IV	Receipts into PADD V	Ship- ments from PADD V	Net Receipts PADD V
Crude Oil (Tanker and Barge only)	4,615	82	4,533	762	0	762	21,927	893	21,034	0	0	٥	0	26,329	-26,329
Petroleum Products	81,664	7,888	73,776	27,047	12,096	14,951	7,677	99,138	-91,461	1,976	2,891	-915	3,940	291	3,649
Unfractionated Stream	٥٥	0	0	1,105	c 66	272	5.070	\$	60 gg	0 0	11 864	-11 B64	φ c	00	Φ 6
Pfant Condensate	0	0	0	0	0	0	0	0	0	0	-	5	0	9 6	ے د
Liquefied Petroleum Gases	1,937	0	1,937	4,699	2,935	1,764	2,331	6,171	-3,840	139	0	139	0	0	. 0
Untimished Oils	211	127	\$	176	27	119	171	380	-203	0	0	0	0	0	0
Motor Gasoline Blending Components	0	0	٥ (96	0	96	0	2 6	-961	0	0	0	0	0	0
Existed Mater Configuration Components	26	0 0	0 (0	0	0	0	٥	0	0	0	0	0	0	0
Enished Loaded Mater Conclus	49,953	5,480	44,473	12,720	5,080	7,640	2,317	56,051	-53,734	1,118	1,347	-229	1,874	54	1,850
Finished Listended Motor Casolina	20 00	3,000	18,080	6,476	2,691	3,785	5 5 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	24,011	-22,715	628	816	188	1,062	24	1,038
Ended America Conding	7000	4 4	56,07	1,70	2,388	3,833	1,021	32,040	21,015	96	<u> </u>	Ŧ	812	0	812
Nachtha Time let Engl	<u> </u>	ָּיָ	2 5	7.0	4 8	5 5	% :	88	-214	₩	0	200	0	0	0
Various Tie let Fiel	8 5	112	22	352	23	88	8	1,115	-1,052	0	138	-138	346	0	346
Nerosene-iype det ruel	9,517	147	9,370	25	736	897	S	11,039	-10,984	203	47	456	<u>5</u>	0	5 2
NetCostileto Para Cita	999	<u>بر</u>	379	2 3	10	6	0	38	-398	0	0	0	0	0	0
Designer rues On	15,596	. E. S.	13,865	4,177	55	2,642	62	17,963	-17,184	198	48	-286	963	0	8
Naphtha and Other Oils for Petro.	79/1	3	7,07	231	9	987	488	1,997	-1,509	0	0	0	439	99	273
Feedstock Use	8	34	55	43	O	8	Q	76	9	c	c	c	L	c	
Special Naphthas	295	0	295	22	0	22		374	-374	• •		· c) I	ء د	
Lubricants	572	\$	478	8	6	7	225	999	435	0	• •	· C	£.	۲,	- 6
Waxes	က	0	co	0	0	0	0	60	7		• •	• =	2 =	: <	, -
Asphalt and Road Oil	198	0	198	270	98	23	٥	432	432	0	0	• •	0		0
Miscellaneous Products	345	4	34	17	181	164	4	197	-153		0	0	0	25	, \$ ²
Total All Products	86,279	7,970	78,309	27,809	12,096	15,713	29,604	29,604 100,031 -70,427	-70,427	1,976	2,891	-915	3,940	26,62022,680	-22,680

Sources: See Explanatory Notes on Data Collection and Estimation.

Table 25. Production of Residual Fuel Oil By Sulfur Content, April 1983 (Thousands of Barrels)

	i	1	- -		DA	DAD Dietort 1	=				PAD Dis	District III			PAD	PAD	
Commodity	East /	Appala- t chian	Total	Appala- chian #2	류	Minn., Wisc., Daks.	Okła., Kans., Mo.	Total	Texas	Texas Gulf Coast		No. La., Ark	New Mexico	Total	Dist IV Rocky Mt	Dist. V West Coast	United
Residual Fuel Off	3,199 455 1,895 849	163 49 172 172	3,362 504 1,897 961	မွ ဝ <u>မွ</u> ဝ	1,612 95 412 1,105	217 0 0 217	263 90 110 83	2,128 185 558 1,385	618 55 473 90	6,313 449 1,483 4,381	4,445 743 1,767 1,935	420 95 176 149	\$ 4 to \$	11,850 1,346 3,902 6,602	275 64 56 155	10,632 810 2,519 7,303	28,247 2,909 8,932 16,406

Source: See Explanatory Notes on Data Collection and Estimation.

Table 26. Stocks of Residual Fuel Oil By Sulfur Content, April 1983 (Thousands of Barrels)

			-		IAG	DAD Dietriet	=				PAD District	rict III			PAD	PAD	
Commodity	Coast	East Appala- Coast chian	Total	Appala-	II, Ky	Wisc.	Okla. Karts,	Total	Texas	Texas Guif Coast	Gulf Coast	Vo. La,	New	Total	Dist li∨ Rocky Mt.	Vest Coast	United
Residual Fuel Oil – 0.00 to 0.30% Sulfur Refinery Bulk Terminal	319	£ 1	358 3,597	0	213	0		220 82 302	92	ន្តីរ	88	۱۱ _{دې}	≈	584 49 633	156 0 156	402 0 402	1,720 3,728 5,448
Residual Fuel Oil – 0.31 to 1.00% Suffur Refinery	•	1 P	1,270 5,868 7,138	8	858	11	å ۱۱	656 439 1,095	207	1,165	1.364	1 1 1 24	ته ا ا	2,865 2,542 5,407	500	1,568 422 1,990	6,429 9,271 15,700
Residual Fuel Oil Greater than 1.00% Sulfur Refinery	1,035	8	1,103 8,075 9,178	0	879	155	8 I	1,099 945 2,044	% 	3,258	1,905	1 105	- 27	5,388 1,990 7,378	722 0 722	5,227 1,397 6,624	13,044 12,407 25,451

Sources: See Explanatory Notes on Data Collection and Estimation

- Not Applicable

Table 27. Movements of Residual Fuel Oil by Tanker and Barge Between PAD Districts, By Sulfur Content, April 1983 (Thousands of Barrels)

	II	From I to	-	ц	From II to				From III to	1			ŭ	From V to	
Commodity	=	=	>	-	=	>	_	New Eng	Cent	Low	=	>		=	=
Residual Fuel Oil	0000	140	0000	၂ ၂၀ ၂	182 0 0 182	399	1,726 0 13 1,713	416 0 416	199 0 0 199	1,111 0 13 1,098	231 0 65 166	9009	0000	0000	166 0 0 166

Source. See Explanatory Notes on Data Collection and Estimation.

Table 28. Imports of Residual Fuel Oil by Sulfur Content by Country of Origin, April 1983 (Thousands of Barrels)

		Residu	al Fuel Oil	
Country	0.00 to 0,30%	0.31 to 1.00%	Greater Than 1.00%	Total
Arab OPEC		** •		
Algena	1,205	0	0	4.006
Iraq	0	ő	ő	1,205
Kuwait	ŏ	ŏ	0	0
Qalar	ŏ	ő	0	0
Saudi Arabia	ő	ŏ	Ö	0
United Arab Emirates	Ö	0	-	0
Subtotal Arab OPEC	1,205	0	0 0	0 1,205
Other OPEC				
Ecuador	0	0	0	0
Gabon	ŏ	ő	0	0
Indonesia	ŏ	17	16	33
Nigeria	ŏ	'n	0	0
Venezuela	2.297	818	4,502	
Subtotal Other OPEC	2,297	835	4,518	7,617 7,650
Other				
Angola	0	0	0	0
Australia	0	0	0	0
Bahamas	1,121	290	0	1,412
Bolivia	0	0	Ò	Ö
Brazil	341	326	Ŏ	666
Brunei .,	O	0	Õ	0
Canada	112	865	262	1,239
Congo ,,,	0	176	0	176
Egypt	ŏ	0	ŏ	
France	ő	Ŏ	Ŏ	ŏ
Ghana	ő	ŏ	ŏ	ŏ
Liberia	ő	0	Ŏ	0
Majaysia	Ö	Ö	Ö	ŏ
Mexico	0	(s)	498	498
Netherlands	Ŏ	(5)	0	
	0	298	_	0
Netherlands Antilles	0		4,363	4,661
Norway	•	0	0	0
Oman	0	0	0	0
People's Republic of China	0	0	0	0
Peru	453	0	0	453
Puerto Ríco	0	0	0	0
Romania	0	0	0	0
Spain	0	0	Ō	0
Syna	0	0	0	0
Trinidad	0	0	201	201
Tunisia	0	0	0	0
United Kingdom	0	0	0	0
Virgin Islands	242	544	1,383	2,169
Yugoslavia	0	0	0	0
Zalre	0	0	0	0
Other Western Hemisphere	92	1,393	· 172	1,657
Other Eastern Hernisphere	3	215	78	297
Subtotal Other	2,365	4,108	6,956	13,429
ther				
otal Imports	5,866	4,943	11,475	22,284

⁽s) Less than 500 barrels.
Note: Total may not equal sum of components due to independent rounding.
Sources: See Explanatory Notes on Data Collection and Estimation.

Table 29. Imports of Residual Fuel Oil by Sulfur Content by State of Entry, April 1983 (Thousands of Barrels)

			Residual Fuel Oil	5	
State	0.00 to 0.30%	0.31 to 1.00%	-	Greater Than 1.00%	Totai
PAD District	5,157	3.75	·	10.650	19.534
Connecticut	0	K		0	202
Florida	215	325	24	1.230	1.768
Свогдия	0		0	135	135
Mane	0	329	· Or	1.148	1.476
Maryland	170		0	200	369
Massachusetts	0	502	Q	1.382	1.591
New Jersey	708	1,4	•	400	2 576
New York	3.970	1.672		3.130	8.773
North Carolina	0			412	412
Pennsylvania	66	221	•	533	7.48
South Carolina	0			362	363
Vermont	0		0	0	0
***************************************			0	1,116	1,116
PAD District if	5	2	v.	22	763
llinois	; c	237		; =	237
	44	j	. 0	. 0	4
Michigan	0	202		. 0	202
Minnesota	0	Í	10	2	22
North Dakota	0			5	15
Ohio	0	35	2	0	197
Wisconsin	47	0	0	0	47
PAD District III	526	348	8	693	1,566
Couisiana	4		0	693	269
1	521	348	æ	0	869
PAD District IV	G		0	(8)	(8)
Montana	0		0	(s)	(8)
PAD District V	95	232	8	95	420
Arzona	0		0	0	0
Galriornia Hawaii	8) (s)	0 232	0 2	92 0	92 328
All PAD Districts	5,866	4,943	e	11,475	22,284

(s) Less than 500 barrels.

Note: Total may not equal sum of components due to independent rounding. Sources: See Explanatory Notes on Data Collection and Estimation



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Definitions of Petroleum Products and Other Terms

Alcohol. The family name of a group of organic chemlcal compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a hydrocarbon plus a hydroxyl group; CH-(CH)n-OH. Alcohol includes methanol and ethanol.

Alkylation. A refinery process for chemically combining isoparaffin with olefin hydrocarbons. The product, alkylate, has high octane value and is blended with motor and aviation gasoline to improve the antiknock value of the fuel.

API Gravity. An arbitrary scale expressing the gravity or density of liquid petroleum products. The measuring scale is calibrated in terms of degrees API; it may be calculated in terms of the following formula:

Deg API =
$$\frac{141.5}{\text{sp gr 60F/60F}}$$
 - 131.5

Aromatics. Hydrocarbons characterized by unsaturated ring structures of carbon atoms. Commercial petroleum aromatics are benzene, toluene, and xylene.

Asphalt. A dark-brown-to-black cement-like material, containing bitumens as the predominant constituents, obtained by petroleum processing. The definition includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts. The conversion factor for asphalt is 5.5 barrels of 42 U.S. gallons per short-ton.

ASTM. The acronym for the American Society for Testing and Materials.

Aviation Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished aviation gasoline.

Aviation Gasoline, Finished. All special grades of gasoline for use in aviation reciprocating engines, as given in ASTM Specification D910 and Military Specification MIL-G-5572. Excludes blending components which will be used in blending or compounding into finished aviation gasoline.

Barrel. A volumetric unit of measure for crude oil and petroleum products equivalent to 42 U.S. gallons. This measure is used in most statistical reports. Factors for converting petroleum coke, asphalt and wax to barrels are given in the definitions for these products.

Barrels per Calendar Day. The maximum number of barrels of input that can be processed in a twenty-four hour period after making allowances for the following ilmitations: downstream limitations, environmental constraints, types and grades of inputs, planned and unplanned downtime, and types and grades of products.

Barreis Per Stream Day. The amount a unit can process running at full capacity under optimal crude and product slate conditions.

Bi-metallic. A term used to describe a type of catalyst. A catalytic process utilizing a catalyst comprised of two metals (e.g., platinum, rhenlum).

Butane. A normally gaseous paraffinic hydrocarbon, C4H10. It is extracted from natural gas or refinery gas streams. Butane is covered by ASTM Specification D1835 and Gas Processors Association Specification for commercial butane.

isobutane. A saturated straight-chain hydrocarbon of butane. It is a colorless paraffinic gas that bolls at a temperature of 10.9 degrees F. This classification includes mixtures of gases that contain 80 percent liquid volume or more isobutane. It is extracted from natural gas and refinery gas streams.

Normal Butane. A saturated straight-chain hydrocarbon of butane. It is a colorless paraffinic gas that bolls at a temperature of 31.1 degrees F. This classification includes mixtures of gases that contain 80 percent or more normal butane.

Other Butanes. All butanes not included as normal butane or isobutane.

Butane-Propane Mixtures. Mixtures consisting exclusively of butane and propane that conform to ASTM Specification D1835 and Gas Processors Association Specification for commercial butane-propane mixtures. They are extracted from natural gas and refinery gas streams.

Butylene. An olefinic hydrocarbon, C4H8, recovered from refinery processes.

Catalytic Cracking. The refining process of breaking down the larger, heavier, and more complex hydrocarbon molecules into simpler and lighter molecules. Catalytic cracking is accomplished by the use of a catalytic agent and is an effective process for increasing the yield of gasoline from crude oil.

Catalytic Hydrocracking. A refining process for converting middle boiling or residual material to high-octane gasoline, reformer charge stock, jet fuel and/or high grade fuel oil. Hydrocracking is an efficient, relatively low temperature process using hydrogen and a catalyst.

Catalytic Hydrotreating. A process for treating petroleum fractions (e.g., distillate fuel oil and residual fuel oil) and unfinished oils (e.g., naphthas, reformer feeds and heavy gas oil) in the presence of catalysts and substantial quantities of hydrogen to upgrade their quality.

Catalytic Reforming. The use of controlled heat and pressure with catalysts to effect the rearrangement of certain hydrocarbon molecules without altering their composition appreciably; the conversion of low-octane

gasoline fractions into higher octane stocks suitable for blending into finished gasoline; also the conversion of naphthas to obtain a more volatile product of higher octane number.

Conventional. A term used to describe a type of catalyst. A catalytic process utilizing a catalyst comprised of a metal and a non-metal (e.g., platinum, alumina).

Coal. A generic term applied to carbonaceous rocks that were formed by the partial or complete decomposition of vegetation. These stratified carbonaceous rocks are either solid or brittle and are highly combustible. Includes lignite, bituminous coal, and anthracite coal which conform to ASTM Specification D388.

Crude Distillation. The refining process of separating crude oil components by heating and subsequent condensing of the fractions by cooling.

Crude Oil (Including Lease Condensate). A mixture of hydrocarbons that existed in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Included are lease condensate and liquid hydrocarbons produced from tar sands, gilsonite and oil shale. Drip gas is also included, but topped crude oil (residual oil) and other unfinished oils are excluded. Liquids produced at natural gas processing plants and mixed with crude oil are likewise excluded where identifiable. Crude oil is considered as either domestic or foreign according to the following:

Domestic. Crude oil produced in the United States or from its outer continental shelf as defined in 43 U.S.C. 1331.

Foreign. Crude oil produced outside the United States.

Delayed Coking. A process to produce low Conradson carbon gas for catalytic cracking feedstock and for gasoline.

Distillate Fuel Oil. A general classification for one of the petroleum fractions produced in conventional distillation operations. It is used primarily for space heating, on-and-off-highway diesel engine fuel (including railroad engine fuel and fuel for agricultural machinery), and electric power generation. Included are products known as No. 1, No. 2, and No. 4 fuel oils; No. 1, No. 2, and No. 4 diesel fuel.

No. 1 Fuel Oil. A light distillate fuel oil intended for use in vaporizing pot-type burners. ASTM Specification D396 specifies for this grade maximum distillation temperatures of 420 degrees F. at the 10-percent point and 550 degrees F. at the 90-percent point, and kinematic viscosities between 1.4 and 2.2 centistokes at 100 degrees F.

No. 2 Fuel Oll. A distillate fuel oil for use in atomizingtype burners for domestic heating or for moderate capacity commercial-industrial burner units. ASTM Specification D396 specifies for this grade distillation temperatures at the 90-percent point between 540 degrees and 640 degrees F., and kinematic viscosities between 2.0 and 3.6 centistokes at 100 degrees F.

No. 1 and No. 2 Diesel Fuel Oils. Distillate fuel oils used in compression-ignition engines, as given by ASTM Specification D975:

No. 1-D. A volatile distillate fuel oil with a boiling range between 300-575 degrees F. and used in high-speed diesel engines generally operated under wide variations in speed and load. Includes type C-B diesel fuel used for city buses and similar operations. Properties are defined in ASTM Specifications D975.

No. 2-D. A gas oil type distillate of lower volatility with distillation temperatures at the 90-percent point between 540-640 degrees F. for use in high-speed diesel engines generally operated under uniform speed and load conditions. Includes Type R-R diesel fuel used for railroad locomotive engines, and Type T-T for diesel-engine trucks. Properties are defined in ASTM Specification D975.

No. 4 Fuel Oil. A fuel oil for commercial burner installations not equipped with preheating facilities. It is used extensively in industrial plants. This grade is a blend of distillate fuel oil and residual fuel oil stocks that conforms to ASTM Specification D396 or Federal Specification VV-F-815C; its kinematic viscosity is between 5.8 and 26.4 centistokes at 100 degrees F. Also included is No. 4-D, a fuel oil for low- and medium-speed diesel engines that conforms to ASTM Specification D975.

Eastern Hemisphere. That half of the earth east of the Atlantic Ocean which includes Europe, Asla, Africa, and Australia. The Hawalian Foreign Trade Zone is in this hemisphere.

Electric Energy (Purchased). Electricity purchased for refinery operations that is not produced within the refinery complex.

Ethane. A normally gaseous paraffinic compound (C2H6) extracted from natural gas and refinery gas streams. "Ethane" includes any products containing 90 percent liquid volume or more ethane.

Ethane-Propane Mixtures. Mixtures of ethane and propane in which neither component is 90 percent or more of the liquid volume. It is extracted from natural gas and refinery gas streams.

Ethylene. An olefinic hydrocarbon, (C2H4) recovered from refinery or petrochemical processes.

Field Production. Represents crude oil production on leases, natural gas liquids production at natural gas processing plants, and new supply of other hydrocarbons and alcohol.

Fluid Coking. A thermal process utilizing the fluidizedsolids technique for continuous conversion of heavy, low-grade oils into lighter products.

Gasoline Biending Components. Finished components in the gasoline range which will be used for blending or compounding into finished aviation or motor gasoline.

Gas Oil. A liquid petroleum distillate having a viscosity intermediate between that of kerosene and lubricating oil. Derives its name from having originally been used in the manufacture of illuminating gas. Now supplies distillate-type fuel oils and diesel fuel, also cracked to produce gasoline.

imported Crude Oil Burned as Fuel. The amount of foreign crude oil burned as a fuel oil, usually as residual fuel oil, without being processed as such. Imported crude oil burned as fuel includes lease condensate and liquid hydrocarbons produced from tar sand oil, glisonite, and oil shale.

isomerization. A refining process which alters the fundamental arrangement of atoms in the molecule. Used to convert normal butane into isobutane, an alkylation process feedstock, and normal pentane and hexane into isopentane and isohexane, high-octane gasoline components.

Kerosene. A petroleum distiliate that boils at a temperature between 300-550 degrees F., that has a flash point higher than 100 degrees F. by ASTM Method D56, that has a gravity range from 40-46 degrees API, and that has a burning point in the range of 150-175 degrees F. included are the two classifications recognized by ASTM D-3699: No. 1-K and No. 2-K, and all grades of kerosene called range or stove oil which have properties similar to No. 1 fuel oil, but with a gravity of about 43 degrees API and a maximum end-point of 625 degrees F. Kerosene is used in space heaters, cook stoves, and water heaters and is suitable for use as an illuminant when burned in wick lamps.

Kerosene-Type Jet Fuel. A quality kerosene product with an average gravity of 40.7 degrees API, a 10 percent distillation temperature of 400 degrees F. It is covered by ASTM Specification D1655 and Military Specifications MIL-T-5624L (Grades JP-5 and JP-8). A relatively low-freezing point distillate of the kerosene type; it is used primarily for commercial turbojet and turboprop aircraft engines.

Lease Condensate. A natural gas ilquid recovered from gas well gas (associated and non-associated) in lease separators or natural gas field facilities. Lease condensate consists primarily of pentanes and heavier hydrocarbons.

Liquefied Petroleum Gases (LPG). Propane, propylene, butanes, butylene, butane-propane mixtures, ethane-propane mixtures, and Isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw natural gas plant liquids.

Liquefied Refinery Gases (LRG). Liquefied petroleum gases fractionated from refinery or still gases. Through compression and/or refrigeration they are retained in the liquid state. The reported categories are ethane and/or ethylene, propane and/or propylene, butane and/or butylene, butane-propane mixtures, and isobutane. Excludes still gases used for chemical or rubber manufacture which are reported as a petrochemical feedstock and also excludes liquefied gases ready for blending into gasoline which are reported as gasoline blending components. Liquefied refinery gases are reported for use as petrochemical feedstocks or other uses.

Lubricating Oils. A substance used to reduce friction between bearing surfaces. Petroleum jubricants may be produced either from distillates or residues. Other substances may be added to impart or improve certain required properties. Lubricants includes all grades of jubricating oils from spindle oil to cylinder oil and those used in greases. The three categories include Bright Stock, Neutral, and Other.

Bright Stock. A refined, high viscosity lubricating oil base stock that is usually made from residuum by a treatment such as deasphalting, acid treatment, or solvent extraction.

Neutral. A distillate lubricating oil base stock with a viscosity that is usually not above 550 Saybolt Universal Seconds (SUS) at 100 degrees F. It is prepared by a treatment such as hydrofining, acid treatment, or solvent extraction.

Other. A lubricating oil base stock used in finished lubricating oils and greases, including black, coastal, and red oils.

Middle Distillates. A general classification that includes distillate fuel oil and kerosene.

Miscellaneous Products. Includes all finished products not classified elsewhere, e.g., petrolatum, absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, speciality oils and medicinal oils.

Motor Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished motor gasoline. Pool gasoline is included in this category.

Motor Gasoline, Finished. A complex mixture of relatively volatile hydrocarbons, with or without small quantities of additives, that have been blended to form a fuel suitable for use in spark-ignition engines. Specifications for motor gasoline, as given in ASTM Specification D439 or Federal Specification VV-G-1690B, include a boiling range of 122 degrees to 158 degrees F. at the 10-percent point to 365 degrees to 374 degrees F. at the 90-percent point and a Reid vapor pressure range from 9 to 15 psi. Motor gasoline includes finished leaded gasoline, finished unleaded gasoline, and gasohol. Blendstock is excluded until blending has been completed. Alcohol that is to be used in the blending of gasohol is also excluded.

Finished Leaded Gasoline. Contains more than 0.05 gram of lead per gallon or more than 0.005 gram of phosphorus per gallon. The actual lead content of any given gallon, however, may vary as a function of the size of the producer and company according to specific Environmental Protection Agency walver provisions. Premium and regular grades are included, depending on the octane rating. Includes leaded gasohol. Blendstock is excluded until blending has been completed. Alcohol that is to be used in the blending of gasohol is also excluded.

Finished Unleaded Gasoline. Contains not more than 0.05 gram of lead per gallon and not more than 0.005 gram of phosphorus per gallon. Premium and regular grades are included, depending on the octane rating. Includes unleaded gasohol. Blend stock is excluded until blending has been completed. Alcohol that is to be used in the blending of gasohol is also excluded.

Gasohoi. A blend of finished motor gasoline (leaded or unleaded) and alcohol (generally ethanol but sometimes methanol) in which 10 percent or more of the product is alcohol.

Motor Gasoline, Total. Includes finished leaded motor gasoline, finished unleaded motor gasoline, motor gasoline blending components, and gasohol.

Naphtha-Type Jet Fuel. A fuel in the heavy naphtha bolling range with an average gravity of 52.8 degrees API and 20 to 90 percent distillation temperatures of 290 degrees to 470 degrees F., meeting Milltary Specification MIL-T-5624L (Grade JP-4). JP-4 is used for turbojet and turboprop aircraft engines, primarily by the milltary. Excludes ram-jet and petroleum rocket fuels.

Natural Gas. A mixture of hydrocarbons and small quantitles of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in underground reservoirs.

Natural Gas Field Facility. A field facility designed to process natural gas produced from more than one lease for the purpose of recovering condensate from a stream of natural gas; however, some field facilities are designed to recover propane, butane, natural gasoline, etc., and to control the quality of natural gas to be marketed.

Natural Gas Plant Liquids. Natural gas liquids recovered from natural gas in gas processing plants, and in some situations, from natural gas field facilities. Natural gas liquids extracted by fractionators are also included. These liquids are defined according to the published specifications of the Gas Processors Association and the American Society for Testing and Materials, and are classified as follows: Ethane, propane, ethane-propane mix, isobutane, butane, butane-propane mix, isopentane, natural gasoline, plant condensate, unfractionated stream, and other products from natural gas processing plants (i.e., products meeting the standards of finished petroleum products produced at natural gas processing plants, such as finished

motor gasoline, finished aviation gasoline, special naphthas, kerosene, distillate fuel oil, and miscellaneous products).

Natural Gasoline and Isopentane. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas, that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. Includes isopentane which is a saturated branch-chain hydrocarbon, C5H12, obtained by fractionation of natural gasoline or isomerization of normal pentane.

OPEC. The acronym for the Organization of Petroleum Exporting Countries, oil-producing and exporting countries that have organized for the purpose of negotiating with oil companies on matters of oil production, prices, and future concession rights. Current members are Algeria, Ecuador, Gabon, idonesia, Iran, Iraq, Kuwalt, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela.

Operable Distillation Capacity. The maximum amount of Input that can be processed by a crude oil distillation unit in a 24-hour period, making allowances for processing limitations due to types and grades of inputs, limitations of downstream facilities, scheduled and unscheduled downtimes, and environmental constraints. Includes any shutdown capacity that could be placed in operation within days.

Other Hydrocarbons. Materials received by a refinery and consumed as raw materials. Includes hydrogen, coal tar derivatives, gilsonite, and natural gas received by the refinery for reforming into hydrogen. Natural gas to be used as fuel is excluded.

Petrochemical Feedstock Use. Chemical feedstocks derived from petroleum, principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics. The categories reported are Naphtha-less than 400 degrees F. end-point and Other oils-over 400 degrees F. end-point.

Naphtha-Less Than 400 Degrees F. End-Point. A naphtha with an end point of less than 400 degrees F. that is reported as used as a petrochemical feed-stock.

Other Oils-Over 400 Degrees F. End-Point. Oils with an end point over 400 degrees F. that is reported as used as a petrochemical feedstock.

Petroleum Coke. A residue, the final product of the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion factor is five barrels of 42 U.S. gallons per short ton.

Marketable Coke. Those grades of coke produced in delayed or fluid cokers which may be recovered as relatively pure carbon. This green coke may be sold or further purified by calcining.

Catalyst Coke. In many catalytic operations (i.e., catalytic cracking) carbon is deposited on the catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refinery process. This carbon or coke is not recoverable in a concentrated form.

Petroleum Products. Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, natural gasoline and isopentane, plant condensate, unfractionated stream, liquefied petroleum gases, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distiliate fuel oil, residual fuel oil, naphtha less than 400° F. end-point, other oils-over 400° F. end-point, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Petroleum Refinery. An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and alcohol.

Plant Condensate. One of the natural gas ilquids, mostly pentanes and heavier hydrocarbons, recovered and separated as ilquids at gas inlet separators or scrubbers in processing plants.

Primary Stocks. Stocks of crude oil or petroleum products held in storage at (or in) leases, refineries, natural gas processing plants, pipelines, tankfarms, and bulk terminals that can store at least 50,000 barrels of petroleum products or that can receive petroleum products by tanker, barge, or pipeline. Crude oil that is in transit from Alaska, or that is stored on Federal leases or in the Strategic Petroleum Reserve is included. Primary Stocks excludes stocks of foreign origin that are held in bonded warehouse storage.

Propane. A normally gaseous paraffinic compound, C3H8, which includes all products covered by NGPA Specification for commercial and HD-5 propane and ASTM Specification D1835. It is used primarily as a fuel and as a petrochemical feedstock.

Propylene. An olefinic hydrocarbon, C3H6, recovered from refinery or petrochemical processes.

Residual Fuel Oil. The topped crude of refinery operation which includes No. 5 and No. 6 fuel oils as defined in ASTM Specification D396 and Federal Specification VV-F-815C, Navy Special fuel oil as defined in Military Specification MIL-F-859E including Amendment 2 (NATO Symbol F-77), and Bunker C fuel oil. Residual fuel oil is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes. includes imported crude oil to be burned as a fuel.

Road Oil. Any heavy petroleum oil, including residual asphaltic oil used as a dust pallative and surface treatment on roads and highways. It is generally produced in

six grades from 0, the most liquid, to 5, the most viscous.

Special Naphthas. All finished products within the gasoline range that are used as paint thinners, cleaners, or solvents. These products are refined to a specified flash point and have a boiling range of 90 degrees to 220 degrees F. Special naphthas includes all commercial hexane and cleaning solvents conforming to ASTM Specifications D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks are excluded.

Steam (Purchased). Steam, purchased for use by a refinery, that was not generated from within the refinery complex.

Still Gas (Refinery Gas). Any form or mixture of gas produced in refineries by distillation cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, butane, butylene, propane, propylene, etc. Still gas is reported for petrochemical feedstock use and/or refinery fuel use.

Petrochemical Feedstock Use. Includes all refinery streams which are used by chemical or rubber manufacturing operations for further processing, less the amount of such streams returned to the source refinery. Finished petrochemical products are not included. For example, polyethylene, butadlene, etc., are considered petrochemical products; therefore, only their feed-stock equivalents are included.

Fuel Use. All other still gas.

Strategic Petroleum Reserve (SPR). Stocks (currently, only crude oil) maintained by the Federal Government for use during periods of major supply interruption.

Thermal Cracking. A refining process in which heat and pressure are used to break down, rearrange, or combine hydrocarbon molecules. Thermal cracking is used to increase the yield of gasoline obtainable from crude oil.

Unfinished Oils. Includes all oils requiring further processing, except those requiring only mechanical blending.

Unfractionated Streams. Mixtures of unsegregated natural gas ilquid components excluding those included in plant condensate. This product is extracted from natural gas.

Vacuum Distillation. Distillation under reduced pressure (less the atmospheric) which lowers the boiling temperature of the liquid being distilled. This technique, with its relatively low temperatures, prevents cracking or decomposition of the charge stock.

Visbreaking. A thermal cracking process in which heavy vacuum-still bottoms produced on the primary

distillation unit are cracked to increase production of distillate products.

Wax. A solid or semi-solid material derived from petroleum distillates or residues by such treatments as chiliing, precipitating with a solvent, or de-oiling. It is lightcolored, more-or-less translucent crystalline mass, slightly greasy to the touch, consisting of a mixture of solid hydrocarbons in which the paraffin series predominates. Includes all marketable wax whether crude scale or fully refined. The three grades included are microcrystalline, crystalline-fully refined, and crystalline-other. The conversion factor is 280 pounds per 42gailon barrel.

Microcrystalline Wax. Wax extracted from certain petroleum residues having a finer and less apparent crystalline structure than paraffin wax and having the following physical characteristics:

Penetration at 77 degrees F. (D-1321)-60 maximum. Viscosity at 210 degrees F. in Saybolt Universal Sec-

onds (SUS) (D-88)-60 SUS (10.22 centistokes) minimum to 150 SUS (31.8 centistokes) maximum. Oil content (D-721)-5 percent minimum.

Crystalline-Fully Refined Wax. A light-colored paraffin wax having the following characteristics:

Viscosity at 210 degrees F. (D-88)-59.9 SUS (10.18 centistokes) maximum. Oll Content (D-721)-0.5 percent maximum. Other + 20 color, Saybolt minimum.

Crystalline-Other Wax. A paraffin wax having the following characteristics:

Viscosity at 210 degrees F. (D-88)-59.9 SUS (10.18 centlstokes) maximum. Oil Content (D-721)-0.51 percent minimum to 15 percent maximum.

Western Hemisphere. That half of the earth that includes North and South America and the surrounding waters.

Bureau of Mines Petroleum Refining Districts and PAD Districts

The following are the Bureau of Mines petroleum refining districts which make up the PAD districts:

PAD District I

East Coast: District of Columbia and the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New Jersey, Delaware, Maryland, Virginia, North Carolina, South Carolina, Georgia, Florida, and the following countles of the State of New York: Cayuga, Tompkins, Chemung and all countles east and north thereof. Also the following countles in the State of Pennsylvania: Bradford, Sullivan, Columbia, Montour, Northumberland, Dauphin, York, and all countles east thereof.

Appalachian #1: The State of West Virginia and those parts of the States of Pennsylvania and New York not included in the East Coast District.

PAD District II

Appalachian #2: The following countles of the State of Ohio: Erie, Huron, Crawford, Marion, Delaware, Franklin, Pickaway, Ross, Pike, Scioto, and all countles east thereof.

Indiana—Illinois—Kentucky: The States of Indiana, Illinois, Kentucky, Tennessee, Michigan, and that part of the State of Ohio not included in the Appalachian District.

Minnesota — Wisconsin — North and South Dakota: The States of Minnesota, Wisconsin, North Dakota, and South Dakota.

Okiahoma—Kansas—Missouri: The States of Oklahoma, Kansas, Missouri, Nebraska, and Iowa.

PAD District III

Texas Inland: The State of Texas except the Texas Gulf Coast District.

Texas Gulf Coast: The following counties of the State of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jacinto, Montgomery, Harris, Galveston, Waller, Fort Bend, Brazorla, Wharton, Matagorda, Jackson, Victoria, Calhoun, Refugio, Aransas, San Patriclo, Nueces, Kleberg, Kenedy, Willacy, and Cameron.

Louisiana Gulf Coast: The following Parishes of the State of Louisiana: Vernon, Rapides, Avoyelles, Pointe Coupee, West Feliciana, East Feliciana, Saint Helena, Tangipahoa, Washington, and all Parishes south thereof. Also the following countles of the State of Mississippi: Pearl River, Stone, George, Hancock, Harrison, and Jackson. Also the following countles of the State of Alabama: Mobile and Baldwin.

North Louisiana—Arkansas: The State of Arkansas and those parts of the States of Louisiana, Mississippi, and Alabama not included in the Louisiana Guif Coast District.

New Mexico: The State of New Mexico.

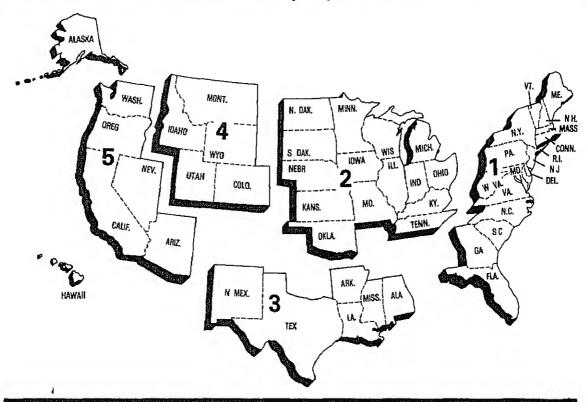
PAD District IV

Rocky Mountain: The States of Montana, Idaho, Wyoming, Utah, and Colorado.

PAD District V

West Coast: The States of Washington, Oregon, Callfornia, Nevada, Arizona, Alaska, and Hawall.

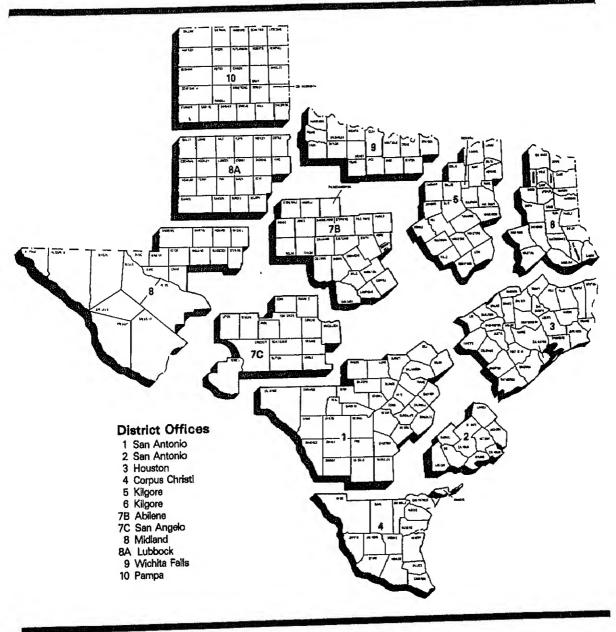
Petroleum Administration for Defense (PAD) Districts



Bureau of Mines Refining Districts



District Map Oil and Gas Division Railroad Commission of Texas



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Explanatory Notes 13

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Note 1: Data Collection Methodology

Background

Beginning in January 1983, the Energy information Administration (EIA) unified its petroleum supply data collection activities into the Petroleum Supply Reporting System (PSRS). The PSRS represents a family of data collection survey forms, data processing systems and publication systems that have been consolidated to achieve comparability and consistency throughout. The primary focus of the consolidation has been to revise the weekly and monthly survey reporting forms to assure consistency in form layout, preparation instructions, and definitions. As a result, a new set of survey forms were implemented in January 1983. The following are the new form numbers and their corresponding predecessor forms:

New Form Number EIA-800	Name Weekly Refinery Re- port	Old Form Number EIA-161
EIA-801	Weekly Bulk Termi- nal Report	EIA-162
EIA-802	Weekly Product Pipe- line Report	EIA-163
EIA-803	Weekly Crude Oil Stocks Report	EIA-164
EIA-804	Weekly Imports Report	EIA-165
EIA-805	Weekly Shipments- from Puerto Rico to the United States Report	
EIA-810	Monthly Refinery Re-	EIA-87
EIA-811	Monthly Bulk Termi- nal Report	EIA-88
EIA-812	Monthly Product Pipeline Report	EIA-89
E1A-813	Monthly Crude Oil Re-	EIA-90
ERA-60	Monthly Imports Report	ERA-60
ElA-815	Monthly Shipments from Puerto Rico to the United States Report	FEA-P133- M-0
EIA-816	Monthly Natural Gas Liquids Report	EIA-64
EIA-817	Monthly Tanker and Barge Movement Report	EIA-170

Forms EIA-800 through 805 comprise the Weekly Petroleum Supply Reporting System (WPSRS). This system Is designed to collect basic refinery operations and product stock data for major products on a weekly basis. Data from the WPSRS are published in the Weekly Petroleum Status Report (WPSR) and are also used to calculate the preliminary statistics in the "Summary Statistics" section of the Petroleum Supply Monthly (PSM). A description of the WPSRS survey forms follows in Note 1.1.

Forms EIA-810-813, 815-817 and ERA-60 comprise the Monthly Petroleum Supply Reporting System (MPSRS). These surveys collect detailed refinery operations data, refinery, bulk terminal and pipeline stocks data, crude oil and petroleum product imports data and movements of petroleum products and crude oil between PAD Districts data. These surveys are the primary source of data for the "Summary Statistics" and "Detailed Statistics" sections of the *PSM*. A description of MPSRS survey forms follows in Note 1.2.

Data are also obtained in magnetic tape form from the Bureau of the Census on a monthly basis. These tapes contain aggregated import and export statistics that are used in the preparation of the *PSM*. A description of the Census data follows in Note 1.3.

Note 1.1: Weekly Petroleum Supply Reporting System (WPSRS)

Background

The EIA first began publishing weekly petroleum supply statistics in April 1979 in response to the Iranian oil crisis. Initially, the published data were taken from the American Petroleum Institute (API) Weekly Statistical Bulletin. However, in January 1980 the EIA began to publish weekly statistics from its own surveys, with the exception of imports statistics which the EIA did not begin collecting until June 1980.

The weekly surveys collect data comparable to those collected on a monthly basis. Selected petroleum companies report weekly data to the EIA on crude oil and petroleum product stocks, refinery inputs and production, and crude oil and petroleum product imports. On Forms EIA-800 through EIA-803, companies report data on a custody basis. On the Form EIA-804, the importer of record reports each shipment entering the United States. On Form EIA-805, a company shipping unfinished oils and finished petroleum products into the United States from Puerto Rico reports each shipment. Current weekly data and the most recent monthly data are used to estimate the totals that are published in the Weekly Petroleum Status Report.

Sample Frame

The sample of companies that report weekly is selected from the universe of companies that report on the comparable monthly surveys. Sampled companies report data only for facilities in the 50 States and District of Columbia.

The sample for each survey is taken from the following universe:

EIA-800: Based on the EIA-810 universe, which includes all petroleum refineries in the United States and

its territories, industrial facilities that have crude oil distillation capacity and produce some refined petroleum products, and plants that produce finished motor gasoline through mechanical blending. The selected sample size is 215.

EIA-801: Based on the EIA-811 universe, which includes all bulk terminal facilities in the United States and its territories that have either a total bulk storage capacity of 50,000 barrels or more, or that receive petroleum products by tanker, barge, or pipeline. The selected sample size is 93.

EIA-802: Based on the EIA-812 universe, which includes all petroleum product pipeline companies in the United States and its territories that transport refined petroleum products, including interstate, intrastate and intracompany pipeline movements. Pipeline companies that transport only natural gas iliquids are not included in the EIA-802 frame. Only those pipeline companies that transport products covered in the weekly survey are included. The selected sample size is 65.

EIA-803: Based on the EIA-813 universe, which consists of all companies which carry or store crude oil of 1,000 barrels or more in the 50 States, and the District of Columbia. Included are gathering and trunk pipeline companies (including interstate, intrastate, and intracompany pipelines), crude oil producers, terminal operators, storers of crude oil, and companies transporting Alaskan crude oil by water.

EIA-804: Based on the ERA-60 universe, which includes all importers of record of crude oil and petroleum products into the United States and Puerto Rico. The selected sample size is 65.

EIA-805: Based on the EIA-815 universe, which includes all shippers of unfinished oils and petroleum products into the United States from Puerto Rico. Four companies report.

Sampling Method

The cut-off method is the sampling procedure used for all weekly surveys except the EIA-802, which uses the monthly universe in its entirety. In the cut-off method, companies are ranked from largest to smallest on the basis of the quantities reported during some previous 12-month period. Companies are chosen for the sampling, beginning with the largest and adding companies until the total sample covers 90 percent of the total for the previous time period for each product published in the Weekly Petroleum Status Report.

Collection Methods

Data are collected by mail, mailgram, telephone, Telex, and Telefax on a weekly basis. The report period closes each Friday at 7 a.m. All canvassed firms and terminal operations companies must file by 5 p.m. on the following Monday.

Estimation and Imputation

After company reports have been checked and entered into the weekly data base, weekly totals for given products are estimated by using the following formula.

The total reported by all companies for the most recent month (M_t) is divided by the amount reported by the sample of companies for the most recent month (M_s) . The result is multiplied by the amount reported by the sample of companies for the current week (W_s) . The answer, W_t , is an estimate of the amount that would have been reported by all companies for the current week if all companies reported each week.

$$W_t = \frac{M_t}{M_s}(W_s)$$

This procedure is used to estimate total weekly inputs to refinerles and production.

To estimate stocks of finished products, the preceding procedure is followed separately for refineries, bulk terminals, and pipelines. Total estimates are formed by summing over establishment types.

Weekly Imports data are highly variable on a companyby-company basis or a week-by-week basis. Therefore, an exponentially smoothed ratio has been developed. The estimate of weekly imports is the sum of the smoothed ratio multiplied by the weekly values and estimates for shipments from Puerto Rico. Imports of other oils includes an adjustment from Census data for unilcensed products because of coverage differences between the monthly imports data and Census data.

Explic't Imputation is done for companies which do not respond in a given week. The imputed values are exponentially smoothed means of recent reports from the specific company.

Response Rates

The response rate for the published estimates is usually between 95 and 98 percent.

Note 1.2: Monthly Petroleum Supply Reporting System (MPSRS)

Background

The MPSRS was implemented in January 1983 as the result of an extensive effort to integrate the collection and processing of petroleum supply data that have been collected on other survey forms for many years. The collection of monthly petroleum supply statistics began as early as 1918 when the Bureau of Mines (BOM) began collecting data on refinery operations and crude oil stocks and movements. The collection systems

were further expanded to include natural gas plant liquids production and storage in 1925, imports of crude oil and petroleum products and storage and movements of petroleum products in 1959, and tanker and barge movements of crude oil and petroleum products in 1964. Since their inception, each survey has undergone numerous changes, but the MPSRS is the first effort to make them all consistent and comparable.

Respondent Frame

EIA-810: All petroleum refineries and plants that produce finished motor gasoline through the mechanical blending of liquids which are operated or controlled in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, the Hawaiian Foreign Trade Zone, and Guam. Approximately 313 respondents report on the EIA-810.

EIA-811: All bulk terminal facilities in the 50 States and the District of Columbia, Puerto Rico, and the Virgin islands that (a) have a total bulk storage capacity of 50,000 barrels or more and/or (b) receive petroleum products by tanker, barge, or pipeline, regardless of ownership of the material. Approximately 328 respondents report on the EIA-811.

EIA-812: All products pipeline companies that carry petroleum products (including interstate, intrastate and intracompany pipelines) in the 50 States and the District of Columbia. Approximately 94 respondents report on the EIA-812.

EiA-813: All companies which carry or store crude oil of 1,000 barrels or more in the 50 States, and the District of Columbia. Included are gathering and trunk pipeline companies (including interstate, intrastate, and intracompany pipelines), crude oil producers, terminal operators, storers of crude oil, and companies transporting Alaskan crude oil by water.

EłA-815: All licensed importers and importers of record shipping petroleum products from Puerto Rico into the 50 States and the District of Columbia.

Import data from the ERA-60 and EIA-815 are Integrated into the Import statistics reported in the *PSM*.

EiA-816: All operators of facilities designed to extract liquid hydrocarbons from natural gas stream (natural gas processing plants) or to separate a hydrocarbon stream into its component products, i.e., propane, butane, natural gasoline, etc. (fractionators). Approximately 990 respondents report on the EIA-816.

EIA-817: All known companies and plants that have custody of crude oil and petroleum products transported by tanker and barge between PAD Districts or between PAD Districts and the Panama Canal. There are about 50 respondents.

ERA-60: All licensed importers and importers of record importing crude oil and petroleum products into the

United States and Puerto Rico. The respondent universe consisted of approximately 1,100 firms as of July 31, 1982. However, only a selected 250 importers must report each month regardless of import activity. All others must report only for a month in which they actually had imports. The respondent universe for this survey is updated whenever an import license is granted by the Office of Oil imports of the ERA.

EIA utilizes a number of sources and methods to maintain the survey respondent lists. On a regular basis, survey managers review industry publications such as the Oil and Gas Journal and LP Gas Almanac for information on facilities or companies going into operation or closing down. These are augmented by articles in newspapers, letters from respondents indicating changes in status and information received from survey systems operated by other offices.

Periodically an extensive survey study is conducted to completely refresh the frames. This involves consolidating information from every known source including State agencies, federal agencies (e.g., EPA, Corps of Engineers, Census Bureau, etc.), and private industry directories. The effort also includes the evaluation of the impact of potential frame changes on the historical time series of data published from these respondents. The results of this frame study are usually implemented in January to provide a full year under the same frame.

Collection Methods

The data for all of the MPSRS surveys are collected monthly. Completed forms are required to be postmarked by the 20th day following the end of the report month, with the exception of the EIA-815 and ERA-60 which are due 15 work days following the end of the report month. Telephone follow-up calls are made to non-respondents prior to the publication deadline, for their data. An automated mailing list is maintained and is used to monitor receipt of the forms.

Imputing Missing Data

imputation is performed only for nonresponding companies that submitted reports the previous month. For such companies, previous monthly values are used for current values. The previous month's ending stocks value is used for both the current month's beginning stocks and the current month's ending stocks. In the event that the previous month's data were estimated, the respondent is contacted and requested to submit estimates, if necessary, to be followed by submission of actual data. Data for nonrespondents on the EIA-815 and 817, and ERA-60 are not imputed.

Response Rates

As of the filing deadline, the response rates of the EIA-810 through EIA-813 respondents is over 90 per-

cent. The response rate for the EIA-816 is over 85 percent and for the EIA-817 it is 98 percent. All companies that have not responded are contacted by telephone. Although data are taken by telephone to expedite processing, a certified submission is still required. Names of companies that fall to file for 2 consecutive months are forwarded for further noncompliance action.

In July 1982, the ERA-60 survey had a response rate of 98 percent by the filing deadline. The universe was 1,100 firms at that time. (Because this is a dynamic survey, the universe is constantly changing.) Standard follow-up of nonrespondents is made to insure that all reports are received, since data are not imputed for nonrespondents. In addition, response is crosschecked with response on the Petroleum Licensing Decrementation System (PLDS), a listing of each month's importers. The response rate is generally 98 to 99 percent by the time the data are first published.

Note 1.3: Census Import (IM-145) and Export (EM-522 and EM-594) Data

Background

Each month the EiA purchases magnetic tapes of aggregated import and export statistics from the Bureau of the Census. These data provide the only source of export statistics and are used to augment the import data collected by the EiA. Export statistics and import data from the Census tapes on liquefied petroleum gases, bonded ships bunkers and military offshore use are published in the *PSM*.

import Statistics (IM-145)

Coverage

The Import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. Customs territory (the 50 States, the District of Columbia, and Puerto Rico), without regard to whether or not a commercial transaction is involved. In general, the statistics record the physical movement of merchandise into the United States from foreign countries, with the exception of the following types of transactions that are excluded from the statistics:

- Merchandise in-transit through the United States, when documented with Gustoms as an in-transit movement.
- 2. Shipments from anywhere to U.S. possessions and shipments from U.S. possessions to the United States. (U.S. possessions include Puerto Rico, the Virgin Islands, Guam, and American Samoa.)
- 3. U.S. merchandise that was held in foreign countries by the U.S. Armed Forces and is returned to the United States for the use of the Armed Forces.

Source of Import Information

The official U.S. Import statistics are compiled by the Bureau of the Census from copies of the import entry and warehouse withdrawal forms that importers are required by law to file with Customs officials (Customs Forms 7501, 7505, and 7506).

Imported petroleum is reported as *Imports for Consumption*. Imports for consumption are a combination of entries for immediate consumption and withdrawais from warehouses for consumption. With certain exceptions as indicated above, these data generally reflect the total of commodities entered into U.S. consumption channels.

Country and Area of Origin

The country reported in the statistics as the country of origin is defined as the country where the merchandise was grown, mined, or manufactured. In instances where the country of origin cannot be determined, the transactions are credited to the country of shipment.

Export Statistics (EM-522 and EM-594)

Coverage

The export statistics reflect both government and nongovernment exports of domestic and foreign merchandise from the U.S. Customs territory (the 50 States, the District of Columbia, and Puerto Rico) to foreign countries, without regard to whether or not the exportation involves a commercial transaction. In general, the statistics record the physical movement of merchandise out of the United States to foreign countries, with the exception of the following types of transactions:

- 1. All shipments from U.S. possessions, regardless of whether the shipments are sent to the United States, to other U.S. possessions, or to foreign countries.
- 2. Merchandise shipped in transit through the United States from one foreign country to another, when documented as such with U.S. Customs.
- 3. Bunker fuels and other supplies and equipment for use on departing vessels, planes, or other carriers engaged in foreign trade.

Source of Export Information

The official U.S. export statistics are compiled by the Bureau of the Census primarily from copies of Shipper's Export Declarations. Exporters are required to file Shipper's Export Declarations with Custom's officials. The only exceptions are those exporters who have been authorized to submit data directly to the Bureau of Census on magnetic tape, punched cards, or monthly Shipper's Summary Export Declarations.

Country and Area of Destination

The country of destination is defined as the country of ultimate destination or the country where the goods are to be consumed, further processed, or manufactured, as known to the shipper at the time of exportation. If the shipper does not know the country of ultimate destination, the shippent is credited to the last country to which the shipper knows that the merchandise will be shipped in the same form as it was when exported.

Note 2: Supply

The components of petroleum supply are field production, refinery production, imports, and stock withdrawal or addition:

Field Production is the sum of crude oil production (including lease condensate), natural gas processing plant production, and new supply (field production) of other liquids used by refinerles.

Crude oil production is estimated based on data received from State conservation and revenue agencies. For further explanation, see Explanatory Note 3.

Field production of natural gas plant liquids (NGPL), including finished petroleum products, is reported monthly on survey Form EiA-816, Monthly Natural Gas Liquids Report. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (Input) or reclassified to become another product during the same month. For survey description and other detail, see Explanatory Note 1.2.

Refinery Production of LRGs, ethane, and finished petroleum products is reported monthly on survey Form EIA-810, Monthly Refinery Report. Published production of these products equals refinery production minus refinery input. Refinery production of unfinished oils and of motor and aviation gasoline blending components appears on a net basis under refinery input. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month, it should also be noted that refinerles do not export production of crude oil, natural gasoline, isopentane, unfractionated stream, plant condensate, or other hydrocarbons.

Imports of crude oil and petroleum products are reported monthly on Form ERA-60, Report of Oil Imports Into the United States and Puerto Rico, and Form EIA-815, Shipments of Refined Products (Including Unfinished Oils) from Puerto Rico to the United States. In addition, the Census Bureau Tabulation IM-145 summarizes import data from Customs Import declarations reported on Customs Forms 7501 and 7505. The most prominent difference between the EIA and Census systems appears in Imports of liquefled petroleum gases

(LPG), where the Census data show a much higher level of imports than EIA data. This occurs because the ERA-60 respondent frame was built by monitoring importers of Ilcensed products and LPGs are not Ilcensed products. Therefore, respondents that Import only LPGs have not been identified, and do not report these Imports to the Department of Energy. Since these Importers are required to flie form 7501 with the U.S. Customs Service, EIA obtains data on imports of LPGs from Census Tabulation IM-145. Additional data taken from the IM-145 are relatively small quantities of naphthaand kerosene-type jet fuels, distillate fuel oils, and residual fuel oils withdrawn from bonded storage for use in international trade and for military offshore use. Even though these duty-free fuels are stored on United States shores, they did not enter the United States for domestic consumption and therefore are not included in the ERA-60 reporting system.

Stock Withdrawal (+) or Addition (-) is calculated by subtracting stocks at the end of the month from stocks at the beginning of the same month. (Note: The beginning stocks of one month are equal to the ending stocks of the previous month.) A positive result (+) would represent a withdrawal from stocks and an increase in petroleum supplies distributed for domestic consumption. A negative result (-) would represent a buildup of stocks and a reduction in the amount of petroleum supplies distributed for domestic consumption. For a description of survey forms used to make stock withdrawal or addition calculations see Explanatory Note 5.

Unaccounted-for Crude Oil is a balancing item that represents the difference between crude oil supply and disposition.

Crude oil supply is the sum of field production, imports and stock withdrawals or additions. Crude oil disposition is the sum of exports, refinery input, losses and product supplied. Unaccounted-for crude oil is calculated by subtracting crude oil supplies from crude oil disposition. A positive result indicates that refiners and exporters reported use of more crude oil than was reported to have been available to them. (This occurs, for example, when imports are undercounted due to late reporting or other problems.) A negative result would indicate that more crude oil was reported to have been supplied to refiners and exporters than they reported used.

Note 3: Domestic Crude Oil Production

Data for the Crude Oil Production System (COPS) are reported to the Department of Energy by each of the State conservation agencies, which collect crude oil production values for tax purposes. The U.S. Geological Survey reports the volume of crude oil that is produced offshore in Federally-owned waters. With the exception of ten State conservation agencies, all of these reports are received monthly. After each calendar year, these monthly numbers are updated using the annual reports

from the State conservation agencies and the U.S. Geological Survey. The ten States that do not report monthly values are Indiana, Kentucky, Missouri, Arkansas, Utah, New York, Ohio, Pennsylvania, West Virginia, and Wyoming. Monthly values are estimated for these States using the individual linear trends of their historical annual crude oil production values.

There is a time lag of approximately 4 months between the end of the reporting month and the time when the monthly COPS information becomes available. Table 11 of this publication provides information on crude oil production for the most recent month for which COPS values are available. In order to present more timely crude oil production values, the EIA's Dallas Field Office prepares a series of State level estimates which are based on historical production patterns and are summed to obtain the monthly crude oil production values shown in the summary statistics of this publication.

The individual State level estimates are either exponential curve fitted projections based on recent data or are constant level projections based on the average production rate during a recent time period. In some cases, adjustments are made to these estimates based on additional information on expected changes in production rates supplied by a State agency, a trade association, or an individual field operator.

Note 4: Disposition

The components of petroleum disposition are crude oil losses, refinery inputs, exports, and products supplied for domestic consumption.

Crude Oil Losses is the sum of crude oil losses at refineries. Crude oil losses at refineries are reported on Form EIA-810, Refinery Report.

Refinery inputs of crude oil, natural gas plant liquids, and other liquids are reported monthly on survey Form EIA-810, Monthly Refinery Report. Published inputs of unfinished oils and of motor and aviation gasoline blending components equal refinery input minus refinery output. Refinery inputs of finished petroleum products are reported on a net basis under refinery production.

Exports of crude oil and petroleum products are compiled from Census Bureau tabulations EM-522 and EM-594. Exports include crude oil shipments to Puerto Rico, the Virgin Islands, and the Hawalian Foreign Trade Zone, which are obtained from refinery receipts reported on Form EIA-810, by refinerles located in these places.

roduct supplied for each product is calculated by imming field production plus refinery production, is imports, plus stock withdrawal or minus stock tition, minus crude oil losses (plus net receipts an calculated on a PAD District basis), minus re-

finery input, minus exports. This formula ensures that total disposition equals total supply.

Products supplied indicates those quantities of petroleum products supplied for domestic consumption. Occasionally, the result for a product is negative because total disposition of that product exceeds total supply. Negative product supplied may occur for a number of reasons: (1) product reclassification has not been reported, (2) data were misreported or reported late, (3) in the case of calculations on a PAD District basis, the figure for net receipts was inaccurate because the coverage of interdistrict movements was incomplete.

Product supplied for crude oil is the sum of crude oil burned on leases and by pipelines as fuel oil. These data are reported on EIA-813, Monthly Crude Oil Report. Prior to January 1983, crude oil burned on leases and by pipelines as fuel oil were reported as either distillate or residual fuel oil and included in product supplied for these products.

Note 5: Stocks

Primary stocks of crude oil are the sum of ending stocks reported monthly on Form EIA-810, Monthly Refinery Report, and on Form EIA-813, Monthly Crude Oil Report. Crude oil held in the Strategic Petroleum Reserve is included unless otherwise noted. Alaskan crude oil in transit is also included. Stocks of crude oil are also reported weekly on Form EIA-800, Weekly Refinery Report, and on Form EIA-803, Weekly Crude Oil Stocks Report. Primary stocks of petroleum products are summed from data reported on Form EIA-816. Monthly Natural Gas Liquids Report, Form EIA-811, Monthly Bulk Terminal Report, and on Form EIA-812, Monthly Product Pipeline Report. Primary stocks of petroleum products do not include either secondary stocks held by dealers and Jobbers or stocks held by consumers. Petroleum product stocks are also reported weekly on Form EIA-800, Weekly Refinery Report, Form EIA-801, Weekly Bulk Terminal Report, and Form EIA-802, Weekly Crude Oll Stocks Report. For survey descriptions and other details, see Explanatory Notes 1,1 - 1,3.

Note 6: Average Stock Levels

The graphs displaying monthly stock levels of crude oil, motor gasoline, distillate fuel oil, residual fuel oil, liquefled petroleum gases, and other products provide the user with recent data as well as a summary of data from January through December or from July through June for the most recent 3-year period. This summary takes the form of an average range that includes seasonal variation determined from a longer time period. The

average range represents the historical pattern; it is not a forecast.

These curves are updated semiannually (on Arpil 1 and October 1), by basing the average ranges on a more recent time period. Each 3-year data series is adjusted by dropping the first 6 months and including the most recent 6 months.

For each data series, the monthly seasonal factors are estimated by means of a seasonal adjustment technique developed at the Bureau of the Census (Census X-11). The seasonal factors are assumed to be stable (i.e., unchanging from year to year) and additive. The series is deseasonalized by subtracting the seasonal factor for the appropriate month from the reported stock levels. The intent of deseasonalization is to remove only seasonal variation from the data. Thus, a deseasonalized series would contain the same trends and irregularities as the original data. For crude oil stocks, the derived seasonal factors are very small relative to crude oil stock levels. Therefore, the seasonal factors for distillate fuel oil, residual fuel oil, liquefied petroleum gases and other products are derived using monthly data from 1974-1980. For motor gasoline, the seasonal factors are based on monthly data from 1975. 1976, 1978, 1979 and 1980. In 1977, there was virtually no seasonal behavior in motor gasoline stocks. Monthly stock levels stayed at the same high level for the entire year. In addition, the seasonal patterns in 1973, 1974 and 1977 were not representative of the recent past, and these years were not used in the determination of seasonal patterns for motor gasoline stocks. Because of these differences in the year-to-year seasonal fluctuation of motor gasoline, the evidence for the lilustrated seasonal patterns for crude oil, distillate fuel oil, residual fuel oil, liquefled petroleum gases and other products is stronger than is the evidence for the illustrated seasonal patterns for motor gasoline.

in some cases, these seasonal patterns do not show a smooth transition from month to month. For example, the June factor for residual fuel oil is slightly less than the May and July values, making a bump in the curve. As there is little difference in the magnitude of these seasonal factors, it is possible that this variation is due to the small number of observations (7 years) and the data variability.

After seasonal factors are derived, the most recent 3-year period (from January through December or from July through June) is deseasonalized. The average of the deseasonalized 36-month series determines the midpoint of the deseasonalized average band. The standard error of the deseasonalized 36 months is calculated adjusting for extreme data points. The width of the average range is twice this standard error.

The upper curve of the average range is defined as the average plus the seasonal factors plus the standard error. The lower curve is defined as the average plus the seasonal factors minus the standard error.

Note 7: Movements

Movements of crude oil between PAD Districts are reported on Form EIA-817, Monthly Tanker and Barge Movement Report, and on Form EIA-813, Monthly Crude Oil Report. Petroleum product movements are reported on Forms EIA-817 and EIA-812, Monthly Product Pipeline Report. Net receipts is the difference between total movements into and total movements out of each PAD District by pipeline, tanker, and barge. For survey descriptions and other detail, see Explanatory Note 1.2.

Note 8: Preliminary Monthly Statistics

Weekly data (Forms EIA-800, 801, 802, 803, and 804) are used to estimate the most recent monthly values for the Summary Statistics section. Since some of the weekly reporting periods overlap two adjacent months, it is necessary to use weighting factors in the calculation of the monthly values.

To estimate crude oil and petroleum product imports, crude oil input to refineries and production of petroleum products for a specific month, the weekly estimates are weighted by the number of days of that month included in each week, then summed.

End-of-month stock levels of crude oil and the major products (motor gasoline, distillate fuel oil, and residual fuel oil) are calculated in a similar manner, but use only the two weekly reporting periods that cover the end-of-week stocks before and after the end of the month. The end-of-month stock level is calculated by first calculating the stock change between the two weeks. The daily stock change between the two end-of-week stock levels is then calculated. This number is multiplied by the weighting factor of the earlier of the two weeks (the week that covers the last day of the month of interest). This change is added to the earlier of the two end-of-week stock levels to estimate the end-of-month stock level.

Preliminary monthly estimates of domestic crude oil production are calculated as described in Explanatory Note 3.

Note 9: Notes on Tables

Note 9.1 Crude Oil and Petroleum Products Overview statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

• Crude Oil and Petroleum Products Stock Withdrawal (+) or Addition (-), Petroleum Products Supplied, Total Imports, Crude Oil Imports, Total Exports, and Crude Oil Exports appear as labeled in Table 4. Total Production and Crude Oil Production appear under Field Production in Table 4.

- Natural Gas Plant Production is the sum of Natural Gas Liquids and Finished Petroleum Products Field Production in Table 4.
- Petroleum Products Imports Is the sum of Natural Gas Liquids and LRGs, Other Liquids, and Finished Petroleum Products Imports in Table 4.
- Total Crude Oil and Petroleum Products Ending Stocks appear in thousands of barrels in Table 2.

Note 9.2 Crude Oil Supply and Disposition statistics on the referenced line appear in Table 1 of the Detailed Statistics, except where noted.

- Total Domestic Field Production, Alaskan Field Production, SPR Imports, Other imports (synonymous with imports Gross Excl. SPR), SPR and Other Primary Stocks Withdrawal (+) or Addition (-), Unaccounted For Crude Oil, Refinery Inputs, and Exports appear as labeled in Table 1.
- Crude losses and Product Supplied appear as labeled in Table 4.
- SPR Ending Stocks and Other Primary Ending Stocks (synonymous with stocks excluding SPR) appear in thousands of barrels in Table 1.
- Total Crude OII Ending Stocks appear in thousands of barrels in Table 2.
- Total Imports appear in Table 4.

Note 9.3 Finished Motor Gasoline Supply and Disposition statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Exports, and Product Supplied appear as labeled in Table 4.
- Unleaded Percent of Total Product Supplied represents the ratio of finished unleaded motor gasoline product supplied to total finished motor gasoline product supplied, multiplied by 100 and rounded to the nearest tenth.
- Ending Stocks appear in thousands of barrels in Table 2,

Note 9.4 Distillate and Residual Fuel Oil Supply and Disposition statistics on the referenced lines appear in Table 4 of the Detailed Statistics, except where noted.

- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Exports, and Product Supplied appear as labeled in Table 4.

 Ending Stocks appear in thousands of barrels in Table 2.

Note 9.5 Liquefied Petroleum Gases Supply and Disposition statistics represent the aggregation of statistics on ethane, propane, butane, butane-propane mixtures, ethane-propane mixtures, and isobutane. The statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

- Total Production is the sum of Field Production and Refinery Production In Table 4.
- Imports, Stocks Withdrawal (+) or Addition (-), Refinery Inputs, Exports, and Product Supplied appear as labeled in Table 4.
- Ending stocks appear in thousands of barrels in Table 2.

Note 9.6 Other Petroleum Products Supply and Disposition statistics represent the aggregation of statistics on natural gasoline, isopentane, unfractionated stream, plant condensate, other liquids, and all finished petroleum products except finished motor gasoline, distillate fuel oil, and residual fuel oil. The statistics on the referenced line are aggregated from Table 4 of the Detailed Statistics, except where noted.

- Total Production is the aggregated sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Refinery Inputs, Exports, and Product Supplied are aggregated from Table 4.
- Ending stocks are aggregated from ending stocks in thousands of barrels in Table 2.

Note 9.7 Table 1, U.S. Petroleum Balance

- Lines (1) through (3): Crude oil (including lease condensate) production for Alaska, Lower 48 States, and Total U.S. are calculated by calling the conservation agency in Alaska for Alaskan crude oil production during the month, estimating crude oil production in the United States (see Explanatory Note 3), and taking the difference to equal production in the Lower 48 States.
- Line (5): SPR Imports are reported on Survey Form ERA-60.
- Line (12): Total Other Sources equals crude oil stock withdrawal (+) or addition (-) plus unaccounted for crude oil minus crude losses in Table 2.
- Line (14): Natural gas plant liquids (NGPL) *Production* equals field production of natural gas liquids (NGL) plus field production of finished petroleum products in Table 2.
- Line (15): NGPL imports equals the sum of the im-

ports of natural gasoline and Isopentane, unfractionated stream, and plant condensate imports in Table 2.

- Line (16): NGPL Stock Withdrawal (+) or Addition (-) is equal to the sum of stock withdrawal (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate in Table 2.
- Line (17) equals the sum of lines (14), (15), and (16).
- Line (18): Unfinished oils and gasoline blending components Stock Withdrawal (+) or Addition (-) equals stock withdrawal (+) or addition (-) for other hydrocarbons and alcohol, for unfinished oils, motor gasoline blending components, and aviation gasoline blending components.
- Line (20): Other Hydrocarbons and Alcohol New Supply equals the field production of same in Table 2.
- Line (21): Refinery Processing Gain Is a balancing Item equal to total refinery production minus total refinery input in Table 2.
- Line (23): Total Other Liquids equals the sum of lines (18) through (22).
- Line (24): Total Production of Products equals crude oil input to refinerles plus field production of NGPL and finished petroleum products; plus Imports of natural gasoline and Isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of natural gasoline and Isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of other hydrocarbons and alcohol, unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus imports of unfinished olls, aviation gasoline blending components, and motor gasoline blending components; plus field production of other hydrocarbons and alcohol; plus total refinery production; minus total refinery input; plus crude oil product supplied in Table 2.
- Line (25): Gross imports of Refined Products equals imports of LPG plus imports of finished petroleum products in Table 2.
- Line (26): Exports of Refined Products equals exports of LPG plus exports of finished petroleum products in Table 2.
- Line (27): Net imports of Refined Products equals the difference between lines (25) and (26).

- Line (28): Total New Supply of Products equals crude oil input to refinerles plus field production of NGPL and finished petroleum products; plus imports of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of natural gasoline and Isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of other hydrocarbons and alcohol, unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus imports of unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus field production of other hydrocarbons and alcohol; plus total refinery production; minus total refinery input; minus crude oil product supplied plus imports of LPG and finished petroleum products; minus exports of LPG and finished petroleum products in Table 2.
- Line (29): Refined Products Stocks Withdrawal (+) or Addition (-) equals the sum of stock withdrawal (+) or addition (-) for LPG and finished petroleum products in Table 2.
- Line (30): Total Petroleum Products Supplied for Domestic Use equals total products supplied in Table 2.
- Lines (31) through (35) equal the respective products supplied in Table 2.
- Line (36): Other Products Supplied equals the sum of natural gasoline and isopentane, unfractionated stream, plant condensate, aviation gasoline, naphtha < 400 Deg. F for petrochemical feedstock use, other oils > 400 Deg. F. for petrochemical feedstock use, special naphthas, lubricants, waxes, coke, asphalt, road oil, still gas, unfinished oils, motor gasoline blending components, aviation gasoline blending components and miscellaneous products supplied in Table 2.
- Line (37): Total Product Supplied is equal to total products supplied in Table 2.
- The sum of lines (38) and (39), stocks of Crude Oil and Lease Condensate (Excluding SPR) and stocks held by the Strategic Petroleum Reserve, equals ending stocks of crude oil in Table 2. SPR stocks are reported on Form EIA-813.
- Line (43): stocks of *Refined Products*, equals the sum of LPG and finished petroleum product stocks in Table 2.

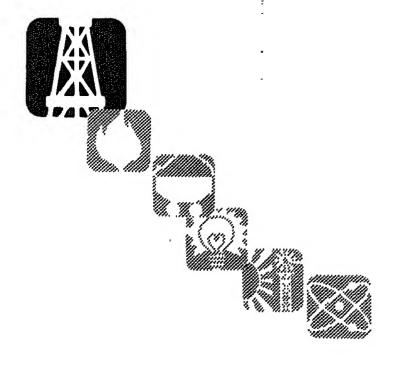
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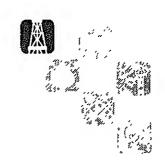
Keynote Address "Energy Issues Facing the U.S.: A Policy Perspective"

Danny J. Boggs, Special Assistant to the President for Energy, Natural Resources, Environment and Agriculture



Opening Remarks

J. Erich Evered, Administrator Energy Information Administration



"Petroleum Supply Division Activities: Present and Future"

Frank E Lalley, Director Petroleum Supply Division Energy Information Administration

Morning Sessions

Session 1.

10:20-11:50 a.m.

World Economic Changes and U.S. Oil Supply

Room A

Chairman Jimmie L. Petersen, Director, Office of Oil and Gas, EIA

- "Trends in Refinery Capacity and Utilization (Results of 1983 EIA Refinery Survey)"
 Elizabeth Campbell, Economist, Petroleum Supply Division, EIA
- 'World Oil Price and Inventory Cycles'
 Dr John L Moore, Deputy Area Manager,
 Applied Management Sciences
- "Minimum Operating Inventories for Gasoline, Distribute Fuel Oil and Residual Fuel Oil " Richard D Farmer, Economist, Petroleum Supply Division, EIA

- Session **2** --

10:20-11:50 a.m.

Availability of EIA Petroleum Supply Information: Surveys, Systems and Publications Room B Chairman Dr Barry M Yaffe, Chief,

Inairman Dr. Barry M. Yaffe, Chief,
Data Analysis and Support Branch, EIA

- "EIA Petroleum Supply Surveys An Overview" Ronald W O'Neill, Publications Branch, Petroleum Supply Division, EIA
- "Systems Improvements The Integrated Petroleum Supply Data Base"
 Robert Lesko, Vice President, Technology and Information Systems, Applied Management Sciences
- "New Data and Information Services" John Daniels, Director, National Energy Information Center, EIA

Afternoon Sessions

- Session **3**

1:30-3:30 p.m.

Current Petroleum Supply Situation and Outlook

Room A

Chairman Dr Wray Smith, Director, Office of Energy Markets and End Use, EIA

- "The Current Petroleum Situation Expectations for Fall and Winter 1983/84" Albert H Linden, Jr, Deputy Administrator, EIA
- "Outlook for World Crude Oil Prices" Calvin W Kilgore, Acting Director, Short-Term Information, EIA
- "The Outlook for Transportation Fuels" Dr David Green, Group Leader, Transportation Energy Group, Oak Ridge National Laboratory
- "Intermediate Term Petroleum Projections" Dr. John Pearson, Director, Longer-Term Information, EIA

- Session 4

1:30-3:30 p.m.

Petroleum Supply Data: Scope and Quality Room B Chairman Dr Yvonne M Bishop, Director, Office of Statistical Standards, EIA

- "Accuracy of Petroleum Supply Data."
 Dr Nancy Kirkendall, Statistician,
 Petroleum Supply Division, EIA
- "Advances in Quality Control in PSD Data"
 Dr. Lawrence A Thibodeau,
 Deputy Area Manager,
 Applied Management Sciences
- "Liquefied Petroleum Gas Reporting" Gary Oleson, Statistician, Petroleum Supply Division, EIA
- "Statistical Design of the Weekly Petroleum Status Report"
 Dr Eugene Burns and Yahia Ahmed, Statisticians, Petroleum Supply Division, EIA





There is no charge for attendance. However, because of space limitations, reservations are required and requests will be honored on an "as received" basis.

I want to attend the symposium on Petroleum Supply Information on August 24, 1983.

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